# Bendix® Antilock Braking Systems and Traction Control

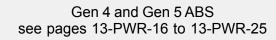
#### **Bendix ABS Sensors**

For Bendix EC-30 ABS see pages 13-SENS-1 to 13-SENS-3

Gen 4 and Gen 5 ABS see page 13-SENS-4

#### **Bendix ABS and Traction Control for Power Vehicles**

For Bendix EC-30 ABS see pages 13-PWR-1 to 13-PWR-15













(formerly marketed under the Eaton® brand name)

### **Bendix ABS for Trailers**

For Bendix EC-30 ABS see pages 13-TLR-1 to 13-TLR-13







Gen 4 and Gen 5 ABS see pages 13-TLR-14 to 13-TLR-20





(formerly marketed under the Eaton® brand name)

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#### **ABS Designations**

ABS systems are designated by the format "XS-YM" where X is the number of sensors in the system and Y is the number of modulators. There are always an even number of sensors, but depending on the installation, individual modulators may control more than one wheel. Example: A 6S-4M system has 6 sensors and 4 modulator valves.

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	13-TLR-9,	5000892 13-SENS		13-PWR-3	5006663 13-SENS-1	5007893 13-PWR-15
	13-TLR-10	5001063 13-SENS	5-1 5004152	13-PWR-6	5006664 13-SENS-1	5007894 13-PWR-15
801231	13-TLR-9,	5001064 13-SENS		13-PWR-3	5006674 13-PWR-10	5007895 13-PWR-15
	13-TLR-10	5001066 13-SENS	5-1 5004357		5006675 13-PWR-10	5007896 13-PWR-15
801233	13-PWR-3,	5001090 13-PWR-	10007000	13-TLR-10	5006676 13-PWR-12	5007897 13-PWR-15
	13-PWR-4,	5001091 13-PWR-	3004433	13-SENS-1	5006677 13-PWR-12	5007898 13-PWR-15
	13-PWR-5	5001108 13-PWR- 5001139 13-TLF	10004000	. 13-PWR-10	5006678 13-PWR-15	5007899 13-PWR-15
801234	13-PWR-3,	5001139 13-1LF	. 1 300437 1	. 13-PWR-10	5006679 13-PWR-15	5007900 13-PWR-15
	13-PWR-4,	5001168 13-SENS	, 1000-000	. 13-PWR-10	5006680 13-PWR-15	5007901 13-PWR-15
001005	13-PWR-5	5001100 13-SENS	. 1000-000	. 13-PWR-10 13-SENS-1	5006681 13-PWR-15 5006682 13-PWR-15	5007902 13-PWR-15
801235	13-PWR-3,	5001252 13-PWR-	3004002	13-SENS-1	5006683 13-PWR-15	5008128 13-PWR-15 5008129 13-PWR-15
	13-PWR-4, 13-PWR-5	5001275 13-PWR-	1000-1007	13-FWK-0	5006703 13-PWR-14	5008189 13-PWR-4
801236	13-PWR-3,	5001282 13-PWF	_ 1000-77 10	. 13-9LN3-1	5006796 13-PWR-4	5008190 13-PWR-4
001200	13-PWR-4,	5001286 13-PWF		. 13-PWR-12	5006797 13-PWR-4	5008191 13-PWR-4
	13-PWR-5	5001325 13-SENS		. 13-PWR-10	5006819 13-PWR-4	5008259 13-PWR-10
801237	13-PWR-5	5001326 13-SENS	5-1 5004959	. 13-PWR-10	5006828 13-SENS-1	5008260 13-PWR-10
	13-PWR-5	5001327 13-SENS	5004969	. 13-PWR-10	5006874 13-PWR-15	5008261 13-PWR-10
801239	13-PWR-4,	5001328 13-SENS	5004977	. 13-PWR-10	5006875 13-PWR-15	5008263 13-TLR-9
	13-PWR-5	5001628 13-TLF	_   J0003023	13-PWR-3	5006876 13-PWR-15	5008264 13-TLR-9
801241	13-TLR-9,	5001656 13-PWR	, <u> </u>	13-PWR-3	5006905 13-PWR-12	5008265 13-TLR-9
	13-TLR-10	13-PWF	10000020	13-PWR-3	5006907 13-PWR-10	5008266 13-TLR-9
801242	13-TLR-9,	5001657 13-PWR 13-PWF	10000020	13-PWR-3	5006908 13-PWR-10	5008267 13-TLR-9
004040	13-TLR-10	5001667 13-SENS	1 10000027	13-PWR-3	5007135 13-PWR-15	5008268 13-TLR-9
801243	13-TLR-9,	5001694 13-SENS	, 100000+1	. 13-PWR-10 13-PWR-6	5007217 13-SENS-1	5008271 13-TLR-11
801245	13-TLR-10 13-TLR-9,	5001695 13-SENS	1 3003 130	13-PWR-6	5007218 13-SENS-1 5007249 13-SENS-1	5008309 13-TLR-2 5008339 13-PWR-3
001240	13-1LR-9, 13-TLR-10	5001703 13-PWF	_ 10000100	. 13-PWR-0	5007249 13-SENS-1	5008352 13-PWR-3
	10-161-10	5001764 13-PWR-		. 10-1 **********	0001200   10-1 VVIX-10	0000002 10-1 VVK-3
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### Service Parts Catalog

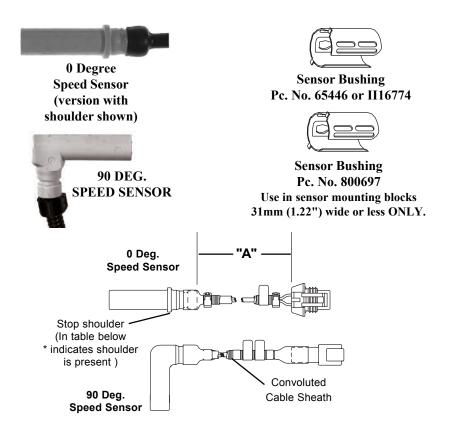
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5008377 1		5008767 13-TLR-12	5009240 13-PWR-4	5010314		5010628 13-TLR-
5008378 1		5008768 13-TLR-12	5009241 13-PWR-4	5010316		5010629 13-TLR-
5008379 1		5008769 13-TLR-12	5009242 13-PWR-4	5010318	13-PWR-4	5010630 13-TLR-
5008380 1		5008770 13-TLR-12	5009243 13-PWR-4	5010319		5010631 13-TLR-
5008404 1	3-PWR-3	5008847 13-PWR-4	5009244 13-PWR-4	5010320	13-PWR-4	5010632 13-TLR-
5008405 1	3-PWR-3	5008848 13-PWR-4	5009245 13-PWR-4	5010345	13-PWR-4	5010633 13-TLR-
5008406 1		5008849 13-PWR-4	5009246 13-PWR-4	5010346	13-PWR-5	5010634 13-TLR-
5008407 1	3-PWR-3	5008857 13-PWR-4	5009253 13-PWR-4	5010347	13-PWR-5	5010635 13-TLR-
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5008457 13	-PWR-10	5008898 13-PWR-3	5009304 13-PWR-15	5010349	13-PWR-5	5010637 13-TLR-
5008470 1	3-PWR-4	5008899 13-PWR-3	5009305 13-PWR-15	5010350	13-PWR-5	5010638 13-TLR-
5008471 1	3-PWR-4	5008926 13-PWR-15	5009306 13-PWR-15	5010351	13-PWR-5	5010639 13-TLR-
5008472 1		5008927 13-PWR-15	5009308 13-PWR-15	5010352		5010640 13-TLR-
5008473 1		5008951 13-PWR-15	5009309 13-PWR-15	5010353		5010641 13-TLR-
5008474 1		5008962 13-PWR-3	5009324 13-PWR-10	5010354		5010642 13-TLR-
5008475 1		5008967 13-PWR-10	5009337 13-PWR-12	5010355		5010643 13-TLR-
5008476 1		5008970 13-PWR-3	5009339 13-PWR-10	5010356		5010644 13-SENS-
5008487 13		5008971 13-PWR-3	5009356 13-PWR-12	5010357		5010647 13-SENS-
5008488 13		5008973 13-PWR-12	5009526 13-TLR-9	5010358		5010680 13-TLR-7
5008502	-	5008981 13-PWR-15	5009583 13-PWR-4	5010359		13-TLR
5008503		5008982 13-PWR-15	5009710 13-TLR-9	5010360		5010681 13-TLR-7
5008504	-	5009024 13-PWR-3	5009711 13-TLR-9	5010362		13-TLR
5008505		5009025 13-PWR-3	5009713 13-TLR-9	5010364		5010953 13-TLR-
5008506		5009026 13-PWR-4	5009714 13-TLR-9	5010366		5010954 13-TLR-
5008507		5009027 13-PWR-3	5009716 13-TLR-11	5010367		5010955 13-TLR-
5008508 1		5009031 13-PWR-3	5009718 13-TLR-11	5010368		5010956 13-TLR-
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5008534		5009033 13-PWR-3	5009722 13-TLR-9	5010370		5010958 13-TLR-
5008535		5009036 13-PWR-3	5009723 13-TLR-9	5010372		5010959 13-TLR-
5008536		5009037 13-PWR-3	5009724 13-TLR-11	5010373		5010960 13-TLR-
5008537		5009038 13-PWR-3	5009725 13-TLR-11	5010374	13-TLR-8	5010961 13-TLR-
5008538 13		5009039 13-PWR-3 5009040 13-PWR-4	5009726 13-TLR-11 5009732 13-TLR-7	5010374		5010962 13-TLR- 5010963 13-TLR-
5008540 13		5009040 13-PWR-4	5009732 13-TLR-7	5010375		5010963 13-TLR-
5008541 13		5009040 13-PWR-4	5009733 13-TLR-6	5010383		5010965 13-TLR-
5008542 13		5009047 13-PWR-4	5009735 13-TLR-8	5010303 1		5010966 13-TLR-
5008545 13		5009049 13-PWR-4	5009733 13-PWR-10	5010428		5010967 13-TLR-
5008546 13		5009050 13-PWR-4	5009774 13-PWR-10	5010429		5011025 13-PWR-1
5008560		5009053 13-PWR-3	<u> </u>	5010430		5011026 13-PWR-1
5008564	-	5009054 13-PWR-10	5010000	5010431		5011027 13-PWR-1
5008565		5009082 13-PWR-12		5010465		5011096 13-PWR-
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5008567		5009086 13-PWR-15	5010028 13-TLR-9	5010467		5011102 13-PWR-
5008568		5009117 13-PWR-4	5010172 13-TLR-10	5010468		5011261 13-TLR-1
5008602 1		5009118 13-PWR-4	5010174 13-PWR-4	5010565		5011262 13-TLR-1
5008603 1		5009120 13-SENS-1	5010175 13-PWR-4	5010566		5011303 13-SENS-
5008604 1		5009121 13-SENS-1	5010176 13-PWR-4	5010567		5011304 13-SENS-
5008605 1	3-PWR-4	5009122 13-SENS-1	5010177 13-PWR-4	5010568	13-TLR-9	5011361 13-PWR-1
5008687 1	3-PWR-3	5009123 13-SENS-1	5010178 13-PWR-4 5010179 13-PWR-4	5010569		5011362 13-PWR-1
5008731 13	3-TLR-12	5009124 13-SENS-1	5010292 13-PWR-4	5010612	13-TLR-9	5011721 13-TLR-1
5008732 13	3-TLR-12	5009125 13-SENS-1	5010292 13-PWR-4	5010613		5011722 13-TLR-1
5008753 13		5009126 13-SENS-1	5010294 13-PWR-4	5010614		
5008754 1		5009133 13-PWR-4	5010295 13-PWR-4	5010615		
5008755 13		5009157 13-TLR-9	5010296 13-PWR-4	5010616		
5008756 13		5009173 13-PWR-4	5010297 13-PWR-4	5010617		
5008757 13		5009174 13-PWR-8	5010301 13-PWR-4	5010618		
5008758 13		5009190 13-PWR-4	5010302 13-PWR-4	5010619		
5008759 13		5009193 13-TLR-13	5010303 13-PWR-4	5010620		
5008760 13		5009194 13-TLR-13	5010304 13-PWR-4	5010621		
5008761 13		5009204 13-PWR-4	5010305 13-PWR-4	5010622		
5008762 13		5009235 13-PWR-4	5010306 13-PWR-4	5010623		
5008763 13		5009236 13-PWR-4	5010307 13-PWR-4	5010624 5010625		
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J000703 1	0-1 LR-12	10000200 13-PVVK-4	5010309 13-PWR-4	3010020	10-1LK-9	
			I All Districts	I		ı

#### EC-30 Speed Sensors

## 13-SENS-1



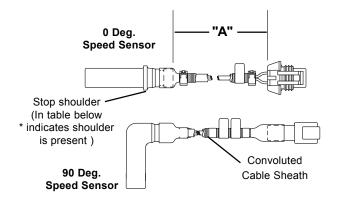
WS-20 CHANGEOVER					
O.E.	Service	Sensor			
Pc. No.	Pc. No.	Config			
65703	800110	90			
65704	N/A	N/A			
65705	550532	90			
550285	65279	90			
550286	65280	0*			
550335	65301	90			
550341	65310	0*			
550384	65323	90			
550385	65324	90			
550386	65325	90			
550387	800110	90			
550395	N/A	N/A			
550437	65357	90			
550440	65362	0*			
550441	65363	0*			
550442	65368	90			
550485	65456	0			
550486	65459	0			
550487	N/A	N/A			
550532	550532	90			
550534	65414	0*			
550607	65472	0*			
550610	65473	0			

WS-20	WS-20 CHANGEOVER					
O.E.	Service	Sensor				
Pc. No.	Pc. No.	Config				
550656	65517	90				
550657	65518	90				
550686	65502	0*				
550715	65528	90				
550759	65640	0				
550767	65659	90				
550796	65711	0				
800200	800198	90				
5000530	800055	90				
5000795	65517	90				
5000796	65518	90				
5000889	800132	90				
5000890	800161	90				
5000891	800488	90				
5000892	800133	90				
5001063	800109	90				
5001064	800110	90				
5001066	800111	0				
5001167	800688	90				
5001168	800689	90				
5001243	800134	90				
5001325	800197	0*				
5001326	800198	90				

WS-20 CHANGEOVER					
O.E.	Service	Sensor			
Pc. No.	Pc. No.	Config			
5001327	800199	90			
5001328	800198	90			
5001667	800356	90			
5001694	800160	0*			
5001695	800690	90			
5002037	800201	90			
5003067	800306	0*			
5003100	800308	90			
5003607	800343	0*			
5003608	800344	90			
5004084	800160	0			
5004459	800442	90			
5004602	800489	90			
5004719	800487	90			
5005223	800542	0			
5005224	800543	0			
5005225	800544	0			
5005706	800592	0			
5005707	800593	90			
5006177	800614	0			
5006586	800659	90			
5006663	800668	0			
5006664	800669	0			

CHANG	EOVER
Service	Sensor
Pc. No.	Config
800655	90
800729	90
800730	90
800708	90
800715	90
800716	90
800717	90
800791	0*
800792	0*
800793	0*
801090	0
801091	0
801092	0
801093	0
801094	90
801095	90
801096	90
801175	0
801251	0
801252	90
801094	90
801095	90
	Service Pc. No. 800655 800729 800730 800708 800715 800716 800717 800791 800792 800793 801090 801091 801092 801093 801094 801095 801175 801251 801252 801094

<sup>\*</sup> Indicates stop shoulder molded into sensor.





#### **Kabelmetal Connector**

Service	Α	Sensor	Comments
Pc. No.	Inches	Config.	
65640	68	0	Convoluted Cable Sheath, Volvo
65711	68	0	Convoluted Cable Sheath
800111	68	0	With Spring Retainer
800109	68	90	With Spring Retainer
800308	68	90	Convoluted Cable Sheath, Volvo
800110	80	90	With Spring Retainer



#### Packard Metripack GT 150 Series Connector

Service	Α	Sensor	Comments
Pc. No.	Inches	Config.	
801096	30	90	Convoluted Cable Sheath
801093	34	0	Convoluted Cable Sheath <sup>1</sup>
801252	37	90	Convoluted Cable Sheath
801092	42	0	Convoluted Cable Sheath
801091	47	0	Convoluted Cable Sheath
801090	51	0	Convoluted Cable Sheath



#### **Metripack 280 Series Connector**

Service	Α	Sensor	Comments
Pc. No.	Inches	Config.	
65357	62	90	
800729	64	90	
65363	64	0*	
65472	64	0*	
800730	64	90*	
65456	88	0*	(Bushing Included)
65459	98	0*	
65659	97	90	
65280	139	0*	
65279	139	90	

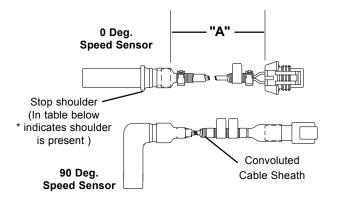


#### **Metripack 150 Series Connector**

Service	Α	Sensor	Comments
Pc. No.	Inches	Config.	
801093	34	0	Convoluted Cable Sheath
800669	35	0	
800668	36	0	
801251	38	0	Convoluted Cable Sheath <sup>1</sup>
65473	64	0	Convoluted Cable Sheath
65517	64	90	Convoluted Cable Sheath,
			GM # 15974484
800487	64	90	Convoluted Cable Sheath
65518	76	90	Convoluted Cable Sheath
801095	85	90	Convoluted Cable Sheath
801094	83	90	Convoluted Cable Sheath

#### EC-30 Speed Sensors

## 13-SENS-3





#### **Deutsch DT04-2P Connector**

NOTE: Deutsch Model Number "DT04-2P" Molded Into Connector Body

Service	Α	Sensor	Comments
Pc. No.	Inches	Config.	
801175	41	0	Convoluted Cable Sheath
65502	49	0*	Convoluted Cable Sheath
65414	61	0*	
800793	61	0*	
65310	76	0*	Convoluted Cable Sheath
800791	76	0*	
65362	104	0*	Convoluted Cable Sheath
800792	104	0*	
800055	25	90	Convoluted Cable Sheath
65528	31	90	Convoluted Cable Sheath
800659	41	90	
800717	41	90	
65323	49	90	Convoluted Cable Sheath
65368	49	90	Convoluted Cable Sheath, Ford
65301	61	90	Convoluted Cable Sheath
800715	61	90	
65324	76	90	Convoluted Cable Sheath
800716	76	90	
65325	104	90	Convoluted Cable Sheath

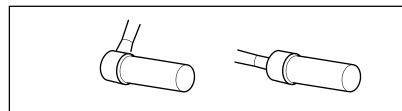


#### **Deutsch DTM06-2S Connector**

NOTE: Deutsch Model Number "DTM06-2S" Molded Into Connector Body

Service	. A	Sensor	Comments
Pc. No.	Inches	Config.	
800542	13	0*	
800197	49	0*	Ford
800306	49	0*	Convoluted Cable Sheath
800343	49	0*	Convoluted Cable Sheath, Ford
800592	49	0*	Convoluted Cable Sheath, Ford
800160	61	0*	Convoluted Cable Sheath
800544	61	0*	
800614	61	0	Convoluted Cable Sheath
800543	104	0*	
800442	13	90	
800489	41	90	Convoluted Cable Sheath
800161	49	90	Convoluted Cable Sheath
800198	49	90	Ford
800690	49	90	
800132	61	90	Convoluted Cable Sheath
800199	61	90	Ford
800344	61	90	Convoluted Cable Sheath, Ford
800593	61	90	Convoluted Cable Sheath, Ford
800655	61	90	Convoluted Cable Sheath
800688	61	90	
550532	68	90	
800201	76	90	Convoluted Cable Sheath, Ford
800356	76	90	With Spring Retainer
800488	76	90	Convoluted Cable Sheath
800708	76	90	Convoluted Cable Sheath
800133	104	90	Convoluted Cable Sheath
800689	104	90	
800134	139	90	

### Gen 4 and Gen 5 Wheel End Sensors and Related Components

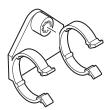


NOTE: Formerly marketed under the Eaton® brand name

Service	Cable	Sensor	Comments
Pc. No.	Length	Config.	
300083	1.3 ft. (0.40 m.)	90	low temperature range applications
300086	2.6 ft. (0.80 m.)	90	
300085	3.3 ft. (1.00 m.)	90	
300171	3.3 ft. (1.00 m.)	0	
300150	5.6 ft. (1.70 m.)	90	
300151	5.6 ft. (1.70 m.)	0	
300084	6.6 ft. (2.00 m.)	90	
300087	6.6 ft. (2.00 m.)	0	



Friction Sleeve pc. no. 300088



Wire Retainer pc. no. 300122

For other harness part information see the index at the front of this catalog.

## **Bendix ABS for Power Vehicles**

Antilock and Traction Systems and Components.

## Bendix EC-30 ABS Pages 13-PWR-1 to 13-PWR-15







## Gen 4 and Gen 5 ABS (formerly marketed under the Eaton® brand name)

Pages 13-PWR-16 to 13-PWR-25



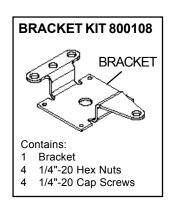


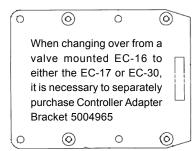






EC-16 ANTILOCK CONTROLLER





EC-16 to EC-17/EC-30 Controller Adapter Bracket 5004965



EC-30 ANTILOCK CONTROLLER 801236

#### **IMPORTANT NOTES**

All EC-16 Electronic Controller part numbers are obsolete and replaced by a single EC-30 part number:

#### 801236

Because the mounting hole spacing is different on the EC-30 the following must be considered:

- 1. When changing over from a valve mounted EC-16 to the EC-30, it is necessary to separately purchase Controller Adapter Bracket 5004965.
- When changing over from a remote (bracket) mounted EC-16 to the EC-30, it is necessary to separately purchase bracket kit 800108.

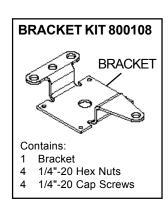


## EC-17 ANTILOCK CONTROLLER



	EC-17 & EC-30 SERVICE REPLACEMENT PIECE NUMBERS					
Service	Service O.E.M. With EC-30 Comments			Comments		
Pc. No.		Brkt.	(NOTE 1)			
800886	GENERIC	NO	801236	GENERIC REPLACEMENT		
800965	VOLVO	NO	801233	USE ON VOLVO VEHICLES		
800966	VOLVO	YES	801233	USE ON VOLVO VEHICLES - REMOTE MOUNT W\BRKT.		
800967	GENERIC	YES	801236	GENERIC REPLACEMENT - REMOTE MOUNT W\BRKT.		
800976	GM	NO	801234	USE ON GM VEHICLES - 86 TOOTH TONE WHEEL		
800977	GM	NO	801235	USE ON GM VEHICLES		

Note 1: When replacing a remote mount EC-17 with an EC-30 equivalent, the remote mount bracket must be reused or bracket kit 800108 purchased separately.



EC-17	EC-30
800275	801236
800276	801236
800293	801236
800294	801236
800301	801234
800392	801236
800400	801235
800401	801233
800402	801233
800558	801236
800582	801236
800623	801236
800624	801236
800860	801236
800886	801236
800965	801233
800966	801233

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EC-17	EC-30
800967	801236
800971	801236
800976	801234
800977	801235
5002717	801235
5002718	801234
5002912	801236
5002913	801236
5002985	801236
5002986	801236
5003260	801236
5003919	801236
5003924	801236
5004038	801233
5004039	801233
5004149	801236

EC-17	EC-30
5004165	801236
5005023	801236
5005024	801236
5005025	801236
5005026	801236
5005027	801236
5006156	801236
5006314	801236
5008339	801236
5008352	801236
5008404	801236
5008405	801236
5008406	801236
5008407	801236
5008424	801236
5008687	801236

EC-17	EC-30
5008898	801233
5008899	801233
5008962	801236
5008970	801235
5008971	801234
5009024	801236
5009025	801236
5009027	801236
5009031	801235
5009032	801234
5009033	801236
5009036	801236
5009037	801236
5009038	801236
5009039	801236
5009053	801236



## EC-30 ANTILOCK CONTROLLER

#### NOTE

The controller part number is found on the identification label attached to the edge of the housing and is lightly engraved on the top surface.



O.E.	Service	O.E.	Customer
Pc. No.	Pc. No.	Customer	Pc. No.
800854	801236		
5005927	<b>801199</b> 801202	GMT 560	15036467
5005928	<b>801200</b> 801203	GMT 560	15036466
5005929	<b>801201</b> 801204	GMT 560	15036465
5006796	801197	GMT 530	15752993
5006797	801198	GMT 530	15752992
5006819	801176	INTL. NGV	3548738C1
5007575	801176	INTL. NGV	3548737C1
5007720	801181	Petibone	62707081P
5007768	801225	VOLVO	20446234
5007769	<b>801226</b> 801225	VOLVO	20446235
5007772	801181	THOMAS	61201760
5007774	801181	Freightliner	
5007775	801181	MACK	7MN56BP2
5007776	801174	INTL.	3553413C1
5008189	801199	GMT 560	
5008190	801200	GMT 560	
5008191	801201	GMT 560	
5008376	<b>801209</b> 801212	GMT 560	15062790
5008377	<b>801208</b> 801211	GMT 560	15062791
5008378	<b>801207</b> 801210	GMT 560	15062792
5008379	801206	GMT 530	15062793
5008380	801205	GMT 530	15062794
5008470	801207	GMT 560	Generic
5008471	801208	GMT 560	Generic
5008472	801209	GMT 560	Generic
5008473	801233		Generic
5008474	801234		Generic
5008475	801235		Generic
5008476	801236		Generic
5008508	801197	GMC	
5008602	801180	FREIGHT	
5008603	801180	FREIGHT	
5008604	801181	FREIGHT	
5008605	801180	FREIGHT	
5008847	801167	INTL. NGV	3561247C1
5008848	801167	INTL. NGV	3561266C1
5008849	801173	INTL.	3560655C1
5008857	801227	VOLVO	20435372
5008858	<b>801228</b> 801227	VOLVO	20435373
5009026	801233	VOLVO	3099332
5009040	801236	FORD	YC3Z2C219AC
5009046	801233	VOLVO	
5009047	801235	GMC	
5009048	801234	GMC	
5009049	801236	Generic	Generic
5009050	801236	Generic	Generic
5009117	801026	Generic	Generic
5000111	00.020	00110110	00110110

Pc. No.         Pc. No.         Customer         Pc. No.           5009118         801179         Generic         Generic           5009133         801236         NA         NA           5009173         801180         OTTAWA         90029231           5009190         801236         INTL         8900075R91           5009204         801239         MACK         7MN56BP1           5009235         801180         Generic         Generic           5009236         801181         BLUE BIRD         36680           5009237         801174         Generic         Generic           5009238         801239         Generic         Generic           5009239         801173         Generic         Generic           5009240         801176         Generic         Generic           5009241         801197         Generic         Generic           5009242         801225         Generic         Generic           5009244         801198         Generic         Generic           5009245         801205         Generic         Generic           5009246         801206         Generic         Generic           5009299         80	O.E.	Service	O.E.	Customer
5009118         801179         Generic         Generic           5009133         801236         NA         NA           5009173         801180         OTTAWA         90029231           5009190         801236         INTL.         8900075R91           5009204         801239         MACK         7MN56BP1           5009235         801180         Generic         Generic           5009236         801181         BLUE BIRD         36680           5009237         801174         Generic         Generic           5009238         801239         Generic         Generic           5009239         801173         Generic         Generic           5009240         801176         Generic         Generic           5009241         801176         Generic         Generic           5009243         801197         Generic         Generic           5009244         801198         Generic         Generic           5009245         801205         Generic         Generic           5009246         801206         Generic         Generic           5009253         801177         Generic         Generic           5009254         801			_	
5009133         801236         NA         NA           5009190         801236         INTL.         8900075R91           5009204         801239         MACK         7MN56BP1           5009235         801180         Generic         Generic           5009236         801181         BLUE BIRD         36680           5009237         801174         Generic         Generic           5009238         801239         Generic         Generic           5009239         801173         Generic         Generic           5009240         801176         Generic         Generic           5009241         801176         Generic         Generic           5009242         801225         Generic         Generic           5009243         801197         Generic         Generic           5009244         801198         Generic         Generic           5009245         801205         Generic         Generic           5009246         801206         Generic         Generic           5009253         801177         Generic         Generic           5009258         801180         MACK         7MN56BP3           5010174         80116				
5009173         801180         OTTAWA         90029231           5009190         801236         INTL.         8900075R91           5009204         801239         MACK         7MN56BP1           5009235         801180         Generic         Generic           5009236         801181         BLUE BIRD         36680           5009237         801174         Generic         Generic           5009238         801239         Generic         Generic           5009239         801173         Generic         Generic           5009240         801176         Generic         Generic           5009241         801176         Generic         Generic           5009242         801225         Generic         Generic           5009243         801197         Generic         Generic           5009244         801205         Generic         Generic           5009245         801205         Generic         Generic           5009246         801206         Generic         Generic           5009253         801177         Generic         Generic           5009299         801227         Generic         Generic           5010174				
5009190         801236         INTL.         8900075R91           5009204         801239         MACK         7MN56BP1           5009235         801180         Generic         Generic           5009236         801181         BLUE BIRD         36680           5009237         801174         Generic         Generic           5009238         801239         Generic         Generic           5009240         801176         Generic         Generic           5009241         801176         Generic         Generic           5009242         801225         Generic         Generic           5009243         801197         Generic         Generic           5009244         801198         Generic         Generic           5009245         801205         Generic         Generic           5009246         801206         Generic         Generic           5009253         801177         Generic         Generic           5009299         801227         Generic         Generic           5009299         801227         Generic         Generic           5010174         801166         Navistar         3572460C1           5010175				
5009204         801239         MACK         7MN56BP1           5009235         801180         Generic         Generic           5009236         801181         BLUE BIRD         36680           5009237         801174         Generic         Generic           5009238         801239         Generic         Generic           5009239         801173         Generic         Generic           5009240         801176         Generic         Generic           5009241         801176         Generic         Generic           5009242         801225         Generic         Generic           5009243         801197         Generic         Generic           5009244         801198         Generic         Generic           5009245         801205         Generic         Generic           5009246         801206         Generic         Generic           5009253         801177         Generic         Generic           5009299         801227         Generic         Generic           5010174         801166         Navistar         3572460C1           5010175         801166         Navistar         3572460C1           5010177				
5009235         801180         Generic         Generic           5009236         801181         BLUE BIRD         36680           5009237         801174         Generic         Generic           5009238         801239         Generic         Generic           5009239         801173         Generic         Generic           5009240         801176         Generic         Generic           5009241         801176         Generic         Generic           5009242         801225         Generic         Generic           5009243         801197         Generic         Generic           5009244         801198         Generic         Generic           5009245         801205         Generic         Generic           5009246         801206         Generic         Generic           5009299         801227         Generic         Generic           5009299         801227         Generic         Generic           5009283         801180         MACK         7MN56BP3           5010174         801166         Navistar         3572460C1           5010175         801166         Navistar         3572462C1           5010177				
5009236         801181         BLUE BIRD         36680           5009237         801174         Generic         Generic           5009238         801239         Generic         Generic           5009240         801173         Generic         Generic           5009241         801176         Generic         Generic           5009242         801225         Generic         Generic           5009243         801197         Generic         Generic           5009244         801198         Generic         Generic           5009245         801205         Generic         Generic           5009245         801206         Generic         Generic           5009246         801206         Generic         Generic           5009253         801177         Generic         Generic           5009299         801227         Generic         Generic           5009583         801180         MACK         7MN56BP3           5010174         801166         Navistar         3572460C1           5010175         801167         Navistar         3572462C1           5010177         801167         Navistar         3572398C1           5010292 <td></td> <td></td> <td></td> <td></td>				
5009237         801174         Generic         Generic           5009238         801239         Generic         Generic           5009240         801173         Generic         Generic           5009241         801176         Generic         Generic           5009242         801225         Generic         Generic           5009243         801197         Generic         Generic           5009244         801198         Generic         Generic           5009245         801205         Generic         Generic           5009246         801206         Generic         Generic           5009253         801177         Generic         Generic           5009299         801227         Generic         Generic           5009583         801180         MACK         7MN56BP3           5010174         801166         Navistar         3572460C1           5010175         801167         Navistar         3572462C1           5010177         801167         Navistar         3572462C1           5010178         801174         Navistar         3572398C1           5010179         801173         Navistar         3572398C1           5010				
5009238         801239         Generic         Generic           5009240         801176         Generic         Generic           5009241         801176         Generic         Generic           5009242         801225         Generic         Generic           5009243         801197         Generic         Generic           5009244         801198         Generic         Generic           5009245         801205         Generic         Generic           5009246         801206         Generic         Generic           5009253         801177         Generic         Generic           5009299         801227         Generic         Generic           5009583         801180         MACK         7MN56BP3           5010174         801166         Navistar         3572460C1           5010175         801167         Navistar         3572462C1           5010176         801167         Navistar         3572463C1           5010178         801174         Navistar         3572398C1           5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010294				
5009240         801176         Generic         Generic           5009241         801176         Generic         Generic           5009242         801225         Generic         Generic           5009243         801197         Generic         Generic           5009244         801198         Generic         Generic           5009245         801205         Generic         Generic           5009246         801206         Generic         Generic           5009253         801177         Generic         Generic           5009299         801227         Generic         Generic           5009583         801180         MACK         7MN56BP3           5010174         801166         Navistar         3572460C1           5010175         801166         Navistar         3572460C1           5010176         801167         Navistar         3572462C1           5010177         801167         Navistar         3572398C1           5010178         801174         Navistar         3572398C1           5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010		801239		
5009241         801176         Generic         Generic           5009242         801225         Generic         Generic           5009243         801197         Generic         Generic           5009244         801198         Generic         Generic           5009245         801205         Generic         Generic           5009246         801206         Generic         Generic           5009253         801177         Generic         Generic           5009299         801227         Generic         Generic           5009583         801180         MACK         7MN56BP3           5010174         801166         Navistar         3572460C1           5010175         801166         Navistar         3572461C1           5010176         801167         Navistar         3572463C1           5010177         801167         Navistar         3572398C1           5010178         801174         Navistar         3572398C1           5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010294         801180         FREIGHT           5010296         8011	5009239	801173	Generic	Generic
5009242         801225         Generic         Generic           5009243         801197         Generic         Generic           5009244         801198         Generic         Generic           5009245         801205         Generic         Generic           5009246         801206         Generic         Generic           5009253         801177         Generic         Generic           5009289         801227         Generic         Generic           5009583         801180         MACK         7MN56BP3           5010174         801166         Navistar         3572460C1           5010175         801166         Navistar         3572461C1           5010176         801167         Navistar         3572463C1           5010177         801167         Navistar         3572463C1           5010178         801174         Navistar         3572398C1           5010179         801173         Navistar         3572398C1           5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010294         801180         FREIGHT           5010295         8	5009240	801176	Generic	Generic
5009243         801197         Generic         Generic           5009244         801198         Generic         Generic           5009245         801205         Generic         Generic           5009246         801206         Generic         Generic           5009253         801177         Generic         Generic           5009299         801227         Generic         Generic           5009583         801180         MACK         7MN56BP3           5010174         801166         Navistar         3572460C1           5010175         801166         Navistar         3572462C1           5010176         801167         Navistar         3572462C1           5010177         801167         Navistar         3572462C1           5010178         801174         Navistar         3572462C1           5010179         801173         Navistar         3572398C1           5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010294         801180         FREIGHT           5010295         801180         FREIGHT           5010301         801197         GM	5009241	801176	Generic	Generic
5009244         801198         Generic         Generic           5009245         801205         Generic         Generic           5009246         801206         Generic         Generic           5009253         801177         Generic         Generic           5009299         801227         Generic         Generic           5009583         801180         MACK         7MN56BP3           5010174         801166         Navistar         3572460C1           5010175         801166         Navistar         3572461C1           5010176         801167         Navistar         3572462C1           5010177         801167         Navistar         3572462C1           5010178         801174         Navistar         3572462C1           5010179         801173         Navistar         3572398C1           5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010294         801180         FREIGHT           5010295         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC </td <td>5009242</td> <td>801225</td> <td>Generic</td> <td>Generic</td>	5009242	801225	Generic	Generic
5009245         801205         Generic         Generic           5009246         801206         Generic         Generic           5009253         801177         Generic         Generic           5009299         801227         Generic         Generic           5009583         801180         MACK         7MN56BP3           5010174         801166         Navistar         3572460C1           5010175         801166         Navistar         3572462C1           5010176         801167         Navistar         3572462C1           5010177         801167         Navistar         3572463C1           5010178         801174         Navistar         3572463C1           5010179         801173         Navistar         3572493C1           5010292         801181         THOMAS         61201760           5010292         801181         THOMAS         61201760           5010293         801180         FREIGHT           5010294         801180         FREIGHT           5010295         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC         15166805<	5009243	801197	Generic	Generic
5009246         801206         Generic         Generic           5009253         801177         Generic         Generic           5009299         801227         Generic         Generic           5009583         801180         MACK         7MN56BP3           5010174         801166         Navistar         3572460C1           5010175         801166         Navistar         3572461C1           5010176         801167         Navistar         3572462C1           5010177         801167         Navistar         3572463C1           5010178         801174         Navistar         3572398C1           5010179         801173         Navistar         3572398C1           5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010294         801180         FREIGHT           5010295         801180         FREIGHT           5010296         801181         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC         15166805           5010303         801206         GMC         15166806 <td>5009244</td> <td>801198</td> <td>Generic</td> <td>Generic</td>	5009244	801198	Generic	Generic
5009253         801177         Generic         Generic           5009299         801227         Generic         Generic           5009583         801180         MACK         7MN56BP3           5010174         801166         Navistar         3572460C1           5010175         801166         Navistar         3572461C1           5010176         801167         Navistar         3572462C1           5010177         801167         Navistar         3572398C1           5010178         801174         Navistar         3572398C1           5010179         801173         Navistar         3572398C1           5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010294         801180         FREIGHT           5010295         801180         FREIGHT           5010296         801181         FREIGHT           5010297         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC         15166804           5010303         801206         GMC         15166806	5009245	801205	Generic	Generic
5009299         801227         Generic         Generic           5009583         801180         MACK         7MN56BP3           5010174         801166         Navistar         3572460C1           5010175         801166         Navistar         3572461C1           5010176         801167         Navistar         3572462C1           5010177         801167         Navistar         3572463C1           5010178         801174         Navistar         3572398C1           5010179         801173         Navistar         3572398C1           5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010294         801180         FREIGHT           5010295         801180         FREIGHT           5010296         801181         FREIGHT           5010297         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC         15166805           5010303         801206         GMC         15166805           5010303         801205         GMC         15164779	5009246	801206	Generic	Generic
5009583         801180         MACK         7MN56BP3           5010174         801166         Navistar         3572460C1           5010175         801166         Navistar         3572461C1           5010176         801167         Navistar         3572462C1           5010177         801167         Navistar         3572463C1           5010178         801174         Navistar         3572398C1           5010179         801173         Navistar         3572398C1           5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010294         801180         FREIGHT           5010295         801180         FREIGHT           5010296         801181         FREIGHT           5010297         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801180         FREIGHT           5010303         801206         GMC         15166804           5010303         801206         GMC         15166805           5010304         801205         GMC         15164779           5010306	5009253	801177	Generic	Generic
5010174         801166         Navistar         3572460C1           5010175         801166         Navistar         3572461C1           5010176         801167         Navistar         3572462C1           5010177         801167         Navistar         3572463C1           5010178         801174         Navistar         3572398C1           5010179         801173         Navistar         3572398C1           5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010294         801180         FREIGHT           5010295         801180         FREIGHT           5010296         801181         FREIGHT           5010297         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC         15166805           5010303         801206         GMC         15166806           5010304         801205         GMC         15164779           5010305         801199         801202         GMC         15164778           5010307         801201         801204         GMC	5009299	801227	Generic	Generic
5010175         801166         Navistar         3572461C1           5010176         801167         Navistar         3572462C1           5010177         801167         Navistar         3572463C1           5010178         801174         Navistar         3572398C1           5010179         801173         Navistar         3572398C1           5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010294         801180         FREIGHT           5010295         801180         FREIGHT           5010296         801181         FREIGHT           5010297         801180         FREIGHT           5010297         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC         15166805           5010303         801206         GMC         15166807           5010304         801205         GMC         15166806           5010305         801199         801202         GMC         15164779           5010306         801200         801203         GMC         15164778	5009583	801180	MACK	7MN56BP3
5010176         801167         Navistar         3572462C1           5010177         801167         Navistar         3572463C1           5010178         801174         Navistar         3572398C1           5010179         801173         Navistar         3572398C1           5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010294         801180         FREIGHT           5010295         801180         FREIGHT           5010296         801181         FREIGHT           5010297         801180         FREIGHT           5010297         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC         15166805           5010303         801206         GMC         15166807           5010304         801205         GMC         15166806           5010305         801199         801202         GMC         15164779           5010306         801208         801203         GMC         15164778           5010308         801201         801204         GMC         151647	5010174	801166	Navistar	3572460C1
5010177         801167         Navistar         3572463C1           5010178         801174         Navistar         3572398C1           5010179         801173         Navistar         3572398C1           5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010294         801180         FREIGHT           5010295         801180         FREIGHT           5010296         801181         FREIGHT           5010297         801180         FREIGHT           5010297         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC         15166805           5010303         801206         GMC         15166807           5010304         801205         GMC         15166806           5010305         801199         801202         GMC         15164779           5010306         801200         801203         GMC         15164778           5010308         801201         801204         GMC         15164780           5010309         801208         801211         GMC	5010175	801166	Navistar	3572461C1
5010178         801174         Navistar         3572398C1           5010179         801173         Navistar         3572398C1           5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010294         801180         FREIGHT           5010295         801180         FREIGHT           5010296         801181         FREIGHT           5010297         801180         FREIGHT           5010297         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC         15166805           5010303         801206         GMC         15166807           5010304         801205         GMC         15166806           5010305         801199         801202         GMC         15164779           5010306         801200         801203         GMC         15164778           5010307         801201         801204         GMC         15164780           5010309         801208         801211         GMC         15164781           5010310         801207         801210	5010176	801167	Navistar	3572462C1
5010179         801173         Navistar         3572398C1           5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010294         801180         FREIGHT           5010295         801180         FREIGHT           5010296         801181         FREIGHT           5010297         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC         15166805           5010303         801206         GMC         15166807           5010304         801205         GMC         15166806           5010305         801199         801202         GMC         15164779           5010306         801200         801203         GMC         15164778           5010307         801201         801204         GMC         1516478           5010309         801208         801212         GMC         15164781           5010310         801207         801211         GMC         15164781           5010310         801207         801210         GMC         15164782	5010177	801167	Navistar	3572463C1
5010292         801181         THOMAS         61201760           5010293         801181         THOMAS         61201760           5010294         801180         FREIGHT           5010295         801180         FREIGHT           5010296         801181         FREIGHT           5010297         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC         15166805           5010303         801206         GMC         15166807           5010304         801205         GMC         15166806           5010305         801199         801202         GMC         15164779           5010306         801200         801203         GMC         15164778           5010307         801201         801204         GMC         15164777           5010308         801209         801212         GMC         15164780           5010309         801208         801211         GMC         15164781           5010310         801207         801210         GMC         15164782	5010178	801174	Navistar	3572398C1
5010293         801181         THOMAS         61201760           5010294         801180         FREIGHT           5010295         801180         FREIGHT           5010296         801181         FREIGHT           5010297         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC         15166805           5010303         801206         GMC         15166807           5010304         801205         GMC         15164779           5010305         801199         801202         GMC         15164779           5010306         801200         801203         GMC         15164778           5010307         801201         801204         GMC         15164777           5010308         801209         801212         GMC         15164780           5010309         801208         801211         GMC         15164781           5010310         801207         801210         GMC         15164782	5010179	801173	Navistar	3572398C1
5010294         801180         FREIGHT           5010295         801180         FREIGHT           5010296         801181         FREIGHT           5010297         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC         15166805           5010303         801206         GMC         15166807           5010304         801205         GMC         15166806           5010305         801199         801202         GMC         15164779           5010306         801200         801203         GMC         15164778           5010307         801201         801204         GMC         15164777           5010308         801209         801212         GMC         15164780           5010310         801208         801211         GMC         15164781           5010310         801207         801210         GMC         15164782	5010292		THOMAS	
5010295         801180         FREIGHT           5010296         801181         FREIGHT           5010297         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC         15166805           5010303         801206         GMC         15166807           5010304         801205         GMC         15166806           5010305         801199         801202         GMC         15164779           5010306         801200         801203         GMC         15164778           5010307         801201         801204         GMC         15164777           5010308         801209         801212         GMC         15164780           5010310         801208         801211         GMC         15164781           5010310         801207         801210         GMC         15164782	5010293	801181		61201760
5010296         801181         FREIGHT           5010297         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC         15166805           5010303         801206         GMC         15166807           5010304         801205         GMC         15166806           5010305         801199         801202         GMC         15164779           5010306         801200         801203         GMC         15164778           5010307         801201         801204         GMC         15164777           5010308         801209         801212         GMC         15164780           5010310         801208         801211         GMC         15164781           5010310         801207         801210         GMC         15164782				
5010297         801180         FREIGHT           5010301         801197         GMC         15166804           5010302         801198         GMC         15166805           5010303         801206         GMC         15166807           5010304         801205         GMC         15166806           5010305         801199         801202         GMC         15164779           5010306         801200         801203         GMC         15164778           5010307         801201         801204         GMC         15164777           5010308         801209         801212         GMC         15164780           5010309         801208         801211         GMC         15164781           5010310         801207         801210         GMC         15164782				
5010301         801197         GMC         15166804           5010302         801198         GMC         15166805           5010303         801206         GMC         15166807           5010304         801205         GMC         15166806           5010305         801199         801202         GMC         15164779           5010306         801200         801203         GMC         15164778           5010307         801201         801204         GMC         15164777           5010308         801209         801212         GMC         15164780           5010309         801208         801211         GMC         15164781           5010310         801207         801210         GMC         15164782				
5010302         801198         GMC         15166805           5010303         801206         GMC         15166807           5010304         801205         GMC         15166806           5010305         801199         801202         GMC         15164779           5010306         801200         801203         GMC         15164778           5010307         801201         801204         GMC         15164777           5010308         801209         801212         GMC         15164780           5010309         801208         801211         GMC         15164781           5010310         801207         801210         GMC         15164782				
5010303         801206         GMC         15166807           5010304         801205         GMC         15166806           5010305         801199         801202         GMC         15164779           5010306         801200         801203         GMC         15164778           5010307         801201         801204         GMC         15164777           5010308         801209         801212         GMC         15164780           5010309         801208         801211         GMC         15164781           5010310         801207         801210         GMC         15164782				
5010304         801205         GMC         15166806           5010305         801199 801202         GMC         15164779           5010306         801200 801203         GMC         15164778           5010307         801201 801204         GMC         15164777           5010308         801209 801212         GMC         15164780           5010309         801208 801211         GMC         15164781           5010310         801207 801210         GMC         15164782				
5010305         801199         801202         GMC         15164779           5010306         801200         801203         GMC         15164778           5010307         801201         801204         GMC         15164777           5010308         801209         801212         GMC         15164780           5010309         801208         801211         GMC         15164781           5010310         801207         801210         GMC         15164782				
5010306         801200         801203         GMC         15164778           5010307         801201         801204         GMC         15164777           5010308         801209         801212         GMC         15164780           5010309         801208         801211         GMC         15164781           5010310         801207         801210         GMC         15164782				
5010307         801201         801204         GMC         15164777           5010308         801209         801212         GMC         15164780           5010309         801208         801211         GMC         15164781           5010310         801207         801210         GMC         15164782				
5010308         801209         801212         GMC         15164780           5010309         801208         801211         GMC         15164781           5010310         801207         801210         GMC         15164782				
5010309         801208         801211         GMC         15164781           5010310         801207         801210         GMC         15164782				
5010310 <b>801207</b> 801210 GMC 15164782				
5010314 801225 VOLVO 20462818				
5010316 801227 VOLVO 20462817				
				7MN56A & BP2
5010319 801239 MACK 7MN56B				
5010320 801180 MACK 7MN56BP3				
5010345 801181 NA NA	5010345	801181	NA	NA

**Note:** Controller service part numbers shown in **bold** are supplied with a bracket for remote mounting.

### **EC-30 Controller**

#### **Antilock**

## 13-PWR-5

O.E.	Service	O.E.	Customer
Pc. No.	Pc. No.	Customer	Pc. No.
5010346	801202	NA	NA
5010347	801203	NA	NA
5010348	801204	NA	NA
5010349	801210	NA	NA
5010350	801211	NA	NA
5010351	801212	NA	NA
5010352	801233	NA	NA
5010353	801234	NA	NA
5010354	801235	NA	NA
5010355	801236	NA	NA
5010356	801237	NA	NA
5010357	801238	NA	NA
5010358	801180	OTTAWA	90029598
5010359	801180	OTTAWA	90029599
5010360	801181	BLUE BIRD	46009
5010362	801239	NA	NA
5010364	801166	NA	NA

O.E.	Service	O.E.	Customer
Pc. No.	Pc. No.	Customer	Pc. No.
5010366	801226	NA	NA
5010367	801197	NA	NA
5010368	801198	NA	NA
5010369	801205	NA	NA
5010370	801206	NA	NA
5010372	801228	NA	NA
5010382	800852	NA	NA
5010383	800853	NA	NA
5010429	801167	NA	NA
5010430	801173	NA	NA
5010465	801176	NA	NA
5010466	801177	NA	NA
5010467	801178	NA	NA
5010468	801179	NA	NA
5011096	801333	NA	NA
5011100	801334	NAVISTAR	3572398C2
5011102	801335	NA	NA

### **Service Replacements**

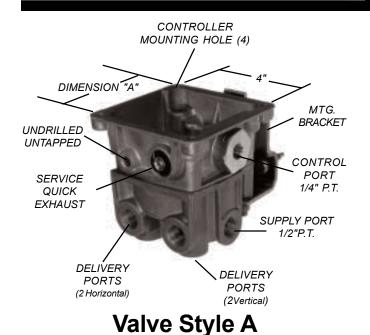
Service	Traction	Sensors	Communication	Blink	Power Line	Comment
Pc. No.	Control <sup>1</sup>	Modulators <sup>2</sup>	Protocol	Code <sup>3</sup>	Carrier	
801166	EL, DB	4 X 4	J1587, J1939			
801167	EL, DB	4 X 4	J1587, J1939		Υ	
801173	EL, DB	6 X 4	J1587, J1939	Υ	Υ	
801174	EL, DB	6 X 4	J1587, J1939	Υ		
801176	EL, DB	4 X 4	J1587, J1939			
801177	EL, DB	4 X 4	J1587, J1939		Y	
801178	EL, DB	4 X 4	J1587, J1939	Υ		
801179	EL, DB	4 X 4	J1587, J1939	Υ	Y	
801180	EL, DB	6 X 4	J1587, J1939	Υ	Υ	
801181	EL, DB	6 X 4	J1587, J1939	Υ		
801197	NONE	4 X 4	J1587, J1939	Υ	Y	
801198	NONE	4 X 4	J1587, J1939	Υ	Y	86 TOOTH
801199	DB	6 X 4	J1587, J1939	Υ	Υ	W/BRKT.
801200	DB	4 X 4	J1587, J1939	Υ	Y	W/BRKT.
801201	NONE	4 X 4	J1587, J1939	Υ	Υ	W/BRKT.
801202	DB	6 X 4	J1587, J1939	Υ	Υ	
801203	DB	4 X 4	J1587, J1939	Υ	Υ	
801204	NONE	4 X 4	J1587, J1939	Υ	Υ	
801205	NONE	4 X 4	J1587, J1939	Υ		
801206	NONE	4 X 4	J1587, J1939	Υ		86 TOOTH
801207	DB	6 X 4	J1587, J1939	Υ		W/BRKT.
801208	DB	4 X 4	J1587, J1939	Υ		W/BRKT.
801209	NONE	4 X 4	J1587, J1939	Υ		W/BRKT.
801210	DB	6 X 4	J1587, J1939	Υ		
801211	DB	4 X 4	J1587, J1939	Υ		
801212	NONE	4 X 4	J1587, J1939	Υ		
801225	EL, DB	6 X 4	J1587, J1939	Υ		
801226	EL, DB	6 X 4	J1587, J1939	Υ		W/BRKT.
801227	EL, DB	6 X 4	J1587, J1939	Υ	Υ	
801228	EL, DB	6 X 4	J1587, J1939	Υ	Υ	W/BRKT.
801233	EL, DB	6 X 4	J1587, J1939, J1922	Υ		
801234	EL, DB	6 X 4	J1587, J1939, J1922	Υ		86 TOOTH
801235	EL, DB	6 X 4	J1587, J1939, J1922	Υ		
801236	EL, DB	6 X 4	J1587, J1939, J1922	Υ		
801237	NONE	4 X 4	J1587, J1939	Υ		
801238	NONE	4 X 4	J1587, J1939	Υ	Y	
801239	EL, DB	6 X 4	J1587, J1939	Υ	Υ	
801333	NONE	4 X 4	J1587, J1939	Υ		
801334	EL, DB	6 X 4	J1587, J1939	Υ	Υ	
801335	EL, DB	6 X 4	J1587, J1939	Υ		

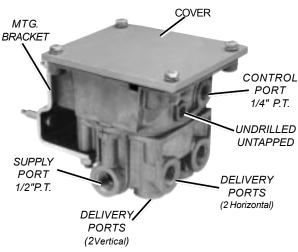
Note 1: "EL" = Engine Limiting feature - "DB" = Differential Braking feature.

Note 2: Number of Speed Sensors presented first Modulators second.

Note 3: Blink Code for troubleshooting is programmed into controller.

### **AR-1 Antilock Relay**

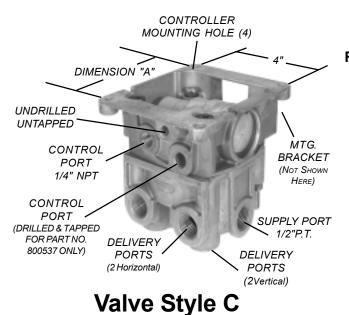




#### REMOTE MOUNT AR-1

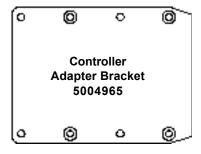
THE REMOTE MOUNT AR-1 IS MOUNTED SEPARATE FROM THE ANTILOCK CONTROLLER AND UTILIZES A COVER. NO QUICK EXHAUST FUNCTION IS INCORPORATED.

### Valve Style B



## SERVICE REPLACEMENTS

AR-1					
CHANGEOVER					
O.E.M.	Service				
Part No.	Part No.				
108472	65327				
108638	65360				
108910	65404				
109350	65501				
109365	800179				
5001282	800297				
5001703	800163				
5002213	800163				
5004152	800398				
5004607	800466				
5005139	800537				
5006081	800605				

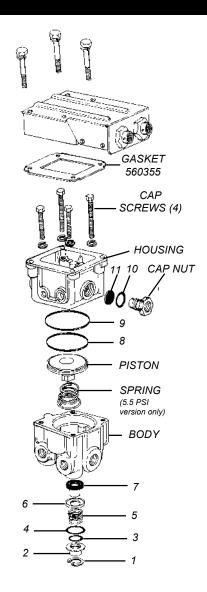


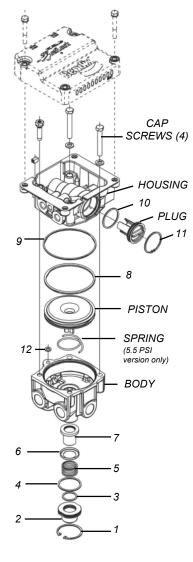
#### Controller Adapter Bracket

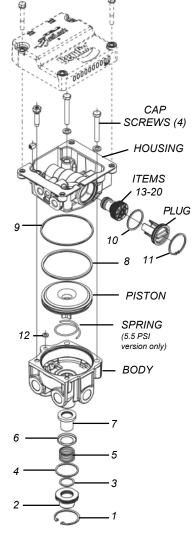
AR-1 valves that have an "A" dimension of 4.9 inches were originally used with the EC-16 controller. When replacing an EC-16 with an EC-17 or EC-30 controller on theses valves this adapter must be purchased separately since the mounting holes are spaced differently.

Serv.	Valve	Delivery Port		Crack	Mtg.	Dim.	Maint.	
Pc. No.	Style	Horiz.	Vert.	Press.	Brkt.	"A"	Kit	Comments
65327	Ā	2-1/2" NPT		4 PSI	5001656	4"	102802	
65360	Α	2-3/8" NPT	2-3/8" NPT	4 PSI	5001656	4"	102802	
65404	Α	2-1/2" NPT		5.5 PSI	5001656	4"	102802	
65501	Α	2-1/2" NPT	N/A	4 PSI	108473	4"	102802	NO VERTICAL PORTS
800163	В	2-1/2" NPT		4 PSI	5001657	4.9"	109368	
800398	В	2-1/2" NPT		5.5 PSI	5001657	4.9"	109368	
800179	С	2-1/2" NPT		4 PSI	5001657	4.9"	109368	
800297	С	2-1/2" NPT		4 PSI	N/A	4.9"	109368	FORD
800466	С	2-1/2" NPT		5.5 PSI	5001657	4.9"	109368	
800537	С	2-1/2" NPT		4 PSI	5001657	4.9"	5005138	AR-1DC - SEE NOTE 1
800605	С	2-1/2" NPT	2-3/8" NPT	4 PSI	N/A	4.9"	109368	FORD
800387	С	2-1/2" NPT		4 PSI	5001657	4.9"	109368	
800388	С	2-1/2" NPT		5.5 PSI	5001657	4.9"	109368	

Note 1 - Control Ports 41 and 42 drilled and tapped







## **MAINTENANCE KIT 102802**

#### CONTAINS THE FOLLOWING PARTS KEYED TO THE ILLUSTRATION ABOVE:

KEY NO.	QTY.	DESCRIPTION			
1	1	RETAINING RING			
2	1	EXH COVER CPL			
3	1	O-RING			
4	1	O-RING			
5	1	VALVE SPRING			
6	1	VALVE RETAINER			
7	1	INL & EXH VALVE			
8	1	O-RING			
9	1	O-RING			
10	1	O-RING			
11	1	DIAPHRAGM			
NOTE: GASKET 560355 MUST BE PURCHASED SEPARATELY.					

RING	1	1	RETAINING RING
R CPL	2	1	EXH COVER CPL
	3	1	O-RING
	4	1	O-RING
ING	5	1	VALVE SPRING
AINER	6	1	VALVE RETAINER
/ALVE	7	1	INL & EXH VALVE
	8	1	O-RING
	9	1	O-RING
	10	1	O-RING
М	11	1	RETAINING RING

**MAINTENANCE KIT 109368** 

CONTAINS THE FOLLOWING PARTS KEYED TO THE ILLUSTRATION ABOVE:

			KEY	QTY.	DESC
KEY	QTY.	DESCRIPTION	NO.		
NO.			1	1	RETA
1	1	RETAINING RING	2	1	EXH (
2	1	EXH COVER CPL	3	1	O-RIN
3	1	O-RING	4	1	O-RIN
4	1	O-RING	5	1	VALV
5	1	VALVE SPRING	6	1	VALV
6	1	VALVE RETAINER	7	1	INL &
7	1	INL & EXH VALVE	8	1	O-RIN
8	1	O-RING	9	1	O-RIN
9	1	O-RING	10	1	O-RIN
10	1	O-RING	11	1	RETA
11	1	RETAINING RING	12	1	SEAL
12	1	SEALING RING	13	1	CHEC

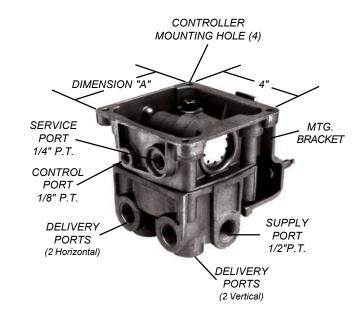
NOTE

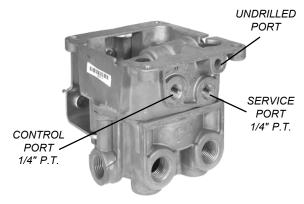
DETAIL PARTS OTHER THAN THOSE SHOWN ARE NOT AVAILABLE FOR SERVICE.

KEY	QIY.	DESCRIPTION
NO.		
1	1	RETAINING RING
2	1	EXH COVER CPL
3	1	O-RING
4	1	O-RING
5	1	VALVE SPRING
6	1	VALVE RETAINER
7	1	INL & EXH VALVE
8	1	O-RING
9	1	O-RING
10	1	O-RING
11	1	RETAINING RING
12	1	SEALING RING
13	1	CHECK VALVE
14	2	CHK VLV GUIDE
15	1	O-RING
16	1	O-RING
17	1	SPRING
18	1	O-RING
19	1	O-RING
20	1	O-RING

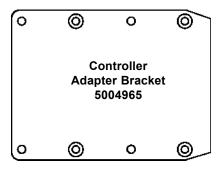


VIEW 1 FOR PART NOS. 65330 & 65364





VIEW 2 FOR PART NOS. 800186, 800187 800299, 801035

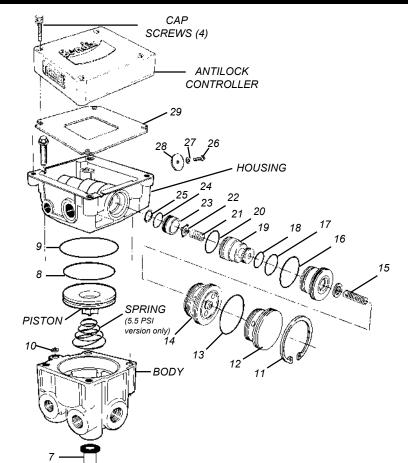


#### Controller Adapter Bracket

AR-1 valves that have an "A" dimension of 4.9 inches were originally used with the EC-16 controller. When replacing an EC-16 with an EC-17 or EC-30 controller on theses valves this adapter must be purchased separately since the mounting holes are spaced differently.

	AR-2 ANTILOCK RELAY ASSEMBLY							
Serv.	Delive	ry Port	Crack	Mtg.	Dim.	Maint.		
Pc. No.	Horiz.	Vert.	Press.	Brkt.	"A"	Kit	Comments	
065330	1/2" PT		4 psi	5001656	4.0"	106932	VIEW 1	
065364	1/2" PT		5.5 psi	5001656	4.0"	106932	VIEW 1	
800186	1/2" PT		4 psi	5001657	4.9"	109359	VIEW 2	
800187	1/2" PT		5.5 psi	5001657	4.9"	109359	VIEW 2	
800299	1/2" PT		4 psi	N/A	4.9"	109359	VIEW 2	
801035	1/2" PT	3/8" PT	4 psi	N/A	4.9"	109359	VIEW 2	

AR-2 CHANGEOVER					
	Service				
Pc. No.	Pc. No.				
108520	065330				
108909	065364				
109366	800186				
109931	800186				
5001286	800299				
5009174	801035				



2

NOTE

Detail parts other than those shown are not available for service.

### MAINTENANCE KIT 106932

CONTAINS THE FOLLOWING PARTS KEYED TO THE ILLUSTRATION ABOVE:

KEY NO.	QTY.	DESCRIPTION
1	1	RETAINING RING
2	1	EXH COVER CPL
3	1	O-RING
4	1	O-RING
5	1	VALVE SPRING
6	1	VALVE RETAINER
7	1	INL & EXH VALVE
8	1	O-RING
9	1	O-RING
10	1	SEALING RING
11	1	RETAINING RING
12	1	EXHAUST PISTON
13	1	O-RING
14	1	SERVICE PISTON
15	1	SPRING
16	1	O-RING
17	1	O-RING
18	1	O-RING
19	1	PROPO. PISTON
20	1	O-RING
21	1	SPRING
22	1	VALVE
23	1	VALVE SEAT
24	1	O-RING
25	1	RETAINING RING
26	1	#6 THD ROLL SCR
27	1	WASHER

EXHAUST DIA. GASKET

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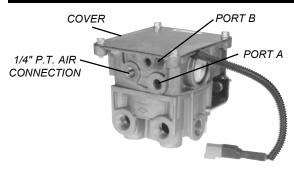
#### MAINTENANCE KIT 109359

CONTAINS THE FOLLOWING PARTS KEYED TO THE ILLUSTRATION ABOVE:

KEY	QTY.	DESCRIPTION
NO.		
1	1	RETAINING RING
2	1	EXH COVER CPL
3	1	O-RING
4	1	O-RING
5	1	VALVE SPRING
6	1	VALVE RETAINER
7	1	INL & EXH VALVE
8	1	O-RING
9	1	O-RING
10	1	SEALING RING
11	1	RETAINING RING
13	1	O-RING
15	1	SPRING
16	1	O-RING
17	1	O-RING
18	1	O-RING
20	1	O-RING
21	1	SPRING
22	1	VALVE
24	1	O-RING
25	1	RETAINING RING

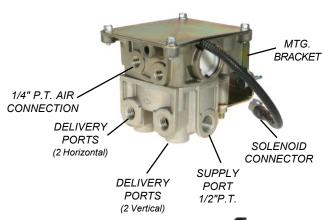
#### NOTE

Key numbers 12, 14, 19, 23 and 26-29 not included in this kit.



#### **REMOTE MOUNT ATR-1**

The remote mount version of the ATR-1 is designed to be mounted separate from the AntiLock/Traction controller and utilizes a cover. Service Replacement units without a cover are not intended for remote mounting.



ATR-1 CHANGEOVER					
O.E.	Service				
Pc. No.	Pc. No.				
550698	65516				
5000335	800030				
5000436	800040				
5000437	800041				
5000438	800040				
5000439	800041				
5001090	800096				
5001091	800096				
5001275	800298				
5001966	800041				
5002211	800030				
5003413	800335				

ATR-1 CHANGEOVER					
O.E.	Service				
Pc. No.	Pc. No.				
5003921	800030				
5004569	800463				
5004571	800463				
5004588	800465				
5004589	800465				
5004906	800504				
5004959	800465				
5004969	800465				
5004977	800463				
5005041	800541				
5005193	800541				
5005673	800463				

ATE	. 4				
ATR-1 CHANGEOVER					
O.E.	Service				
Pc. No.	Pc. No.				
5006038	800609				
5006039	800609				
5006043	800465				
5006044	800609				
5006401	800642				
5006402	800542				
5006404	800643				
5006405	800643				
5006674	801086				
5006675	801118				
5006907	800692				
5006908	800692				

ATR-1 CHANGEOVER					
O.E.	Service				
Pc. No.	Pc. No.				
5007256	800709				
5008259	800818				
5008260	800817				
5008261	800818				
5008457	800842				
5008967	800818				
5009054	801118				
5009324	801086				
5009339	801118				
5009773	801127				
5009774	801127				
5011362	801118				



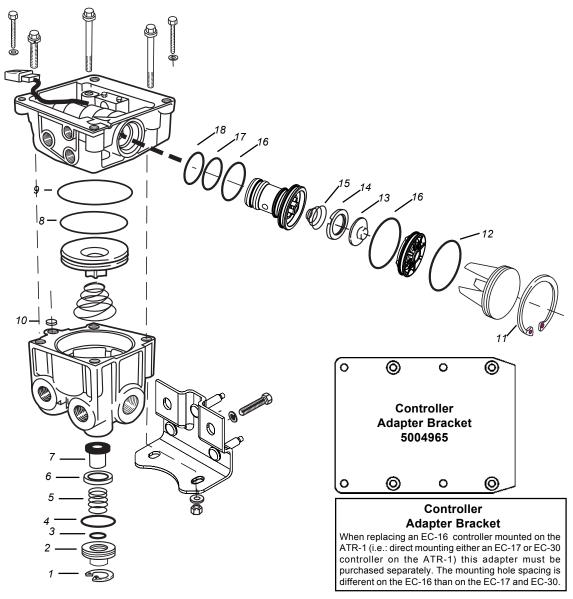
DEUTSCH DT04-2P CONNECTOR



	ATR-1 & ATR-1DC ANTILOCK TRACTION RELAY ASSEMBLIES									
Service	Port	Port	Del	Del	Cover	Crack	Solenoid	Mtg.	Maint.	Comments
Pc. No.	Α	В	Horiz	Vert		Press.	Conn.	Brkt. (1)	Kit	
65516			1/2 PT			4	DT04-2P	5001657	109368	
800030			1/2 PT		112570	4	DT04-2P	5001657	109368	
800298			1/2 PT		5001947	4	DT04-2P		109368	
800335			1/2 PT		5001947	4	DT04-2P		109368	Plastic Screw w/Conn
800643		1/8 PT	1/2 PT	3/8 PT	112570	4	DT04-2P	5005776	109368	
800709	1/4 PT		1/2 PT			4	DT04-2P	5001657	109359	
800817			1/2 PT			4	DTM06-2S	5001657	109368	
800818			1/2 PT		112570	4	DTM06-2S	5001657	109368	
801086	1/4 PT		1/2 PTC	Note 2	112570	4	DTM06-2S	5009412	5004570	Sup. Prts: 2-1/2" PTC
801118	1/4 PT		1/2 PTC	Note 2	112570	4	DTM06-2S		5004570	Sup. Prts: 1-1/2" PTC 1-1/2" PT
801127			1/2 PT	3/8 PT	112570	4	DTM06-2S	5001657	109368	
800040			1/2 PT		112570	5.5	DT04-2P	5001657	109368	
800041			3/8 PT	3/8 PT	112570	5.5	DT04-2P	5005776	109368	
800096			1/2 PT	3/8 PT	112570	5.5	DT04-2P	5005776	109368	
800465	1/4 PT		3/8 PT	3/8 PT	112570	5.5	DT04-2P	5001657	109359	
800541	1/4 PT	1/8 PT	3/8 PT	3/8 PT	112570	5.5	DT04-2P	5001657	5004570	
800609	1/4 PT	1/8 PT	3/8 PT	3/8 PT		5.5	DT04-2P	5001657	5004570	
800642		1/8 PT	1/2 PT	3/8 PT	112570	5.5	DT04-2P	5005776	109368	
800692	1/4 PT		1/2 PT	3/8 PT	112570	5.5	DT04-2P	5005776	5004570	

Note 1: Mounting bracket 5001657 has three 5/16"-18 x 1.35" studs. Mounting bracket 5005776 has two 3/8"-16 and three 5/16"-18 threaded holes. Mounting bracket 5009412 has two M8x1.25-5H threaded holes and two .55" holes.

Note 2: One vertical delivery port is 3/8" pipe thread (PT) and one is 3/8" push-to-connect (PTC).



#### **MAINTENANCE KIT 109368**

Contains the following parts keyed to the illustration above.

he illustration above.					
KEY	QTY.	DESCRIPTION			
NO.					
1	1	RETAINING RING			
2	1	EXH COVER CPL			
3	1	O-RING			
4	1	O-RING			
5	1	VALVE SPRING			
6	1	VALVE RETAINER			
7	1	INL & EXH VALVE			
8	1	O-RING			
9	1	O-RING			
10	1	SEALING RING			
11	1	RETAINING RING			
12	1	O-RING			
13	1	CHECK VALVE			
14	1	O-RING			
15	1	SPRING			
16	2	O-RING			
17	1	O-RING			
17	1	O-RING			

#### **MAINTENANCE KIT 109359**

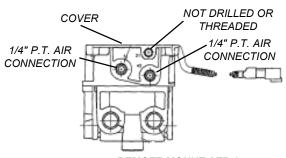
Contains the following parts keyed to the illustration above.

the illustration above.						
KEY	QTY.	DESCRIPTION				
NO.						
1	1	RETAINING RING				
2	1	EXH COVER CPL				
3	1	O-RING				
4	1	O-RING				
5	1	VALVE SPRING				
6	1	VALVE RETAINER				
7	1	INL & EXH VALVE				
8	1	O-RING				
9	1	O-RING				
10	1	SEALING RING				
11	1	RETAINING RING				
12	1	O-RING				
13	1	CHECK VALVE				
14	1	CHK VLV GUIDE				
15	1	SPRING				
16	2	O-RING				
17	1	O-RING				
18	1	O-RING				

#### MAINTENANCE KIT 5004570

Contains the following parts keyed to the illustration above.

ti iC iii	ustratio	ii abovc.
<b>KEY</b>	QTY.	DESCRIPTION
NO.		
11	1	RETAINING RING
12	1	O-RING
13	1	CHECK VALVE
14	1	CHK VLV GUIDE
15	1	SPRING
16	2	O-RING
17	1	O-RING
18	1	O-RING



#### **REMOTE MOUNT ATR-2**

The remote mount version of the ATR-2 is designed to be mounted separate from the AntiLock/Traction controller and utilizes a cover. Service Replacement units without a cover are not intended for remote mounting.

TRACTION SOLENOID (Non-Serviceab NOT DRILLED OR THREADED	)	
1/4" N.P.T. AIR	Company of the Compan	MTG.
CONNECTION	思思情	BRACKET
1/4" N.P.T. AIR CONNECTION		5
DELIVERY	6	
PORTS (2 Harizantal)		
(2 Horizontal)		0
DELIVERY	SUPPLY	
PORTS	PORT	SOLENOID
(2 Vertical)	1/2"	CONNECTOR

#### ATR-2 **CHANGEOVER** Service O.E. Pc. No. Pc. No. 109438 65539 109810 65663 550567 65509 550733 65539 550761 800296 550778 65663 5000076 800007 800007 5000077 5000322 65539 5000336 800031 5001965 65663 65663 5002145 65663 5002146 5002212 800031

ATR-2					
CHANGEOVER					
O.E.	Service				
Pc. No.	Pc. No.				
5003412	800334				
5004016	65663				
5004860	800500				
5005983	65663				
5006149	800611				
5006676	801101				
5006677	801119				
5006905	800007				
5008973	800007				
5009082	801119				
5009337	801101				
5009356	801119				
5011361	801119				

#### **Solenoid Connector Styles**





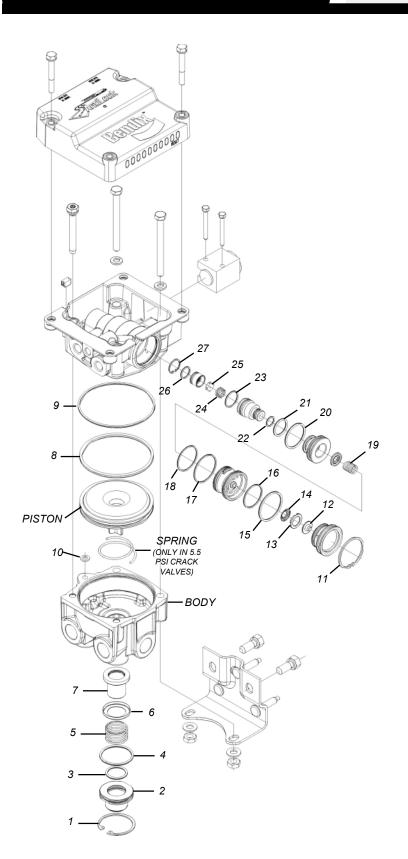
**DEUTSCH** 

DT04-2P CONNECTOR DTM06-2S CONNECTOR

Service	Del	Del	Crack Press.	Cover	Mtg.	Solenoid	Comments
Pc. No.	Horiz	Vert	PSI	Plate	Brkt. (1)	Conn.	
65509	1/2 NPT		4		5001657	DT04-2P	
65539	1/2 NPT		5.5	112570	5001657	DT04-2P	
65663	3/8 NPT	3/8 NPT	5.5	112570	5005776	DT04-2P	
800007	1/2 NPT	3/8 NPT	5.5	112570	5005776	DT04-2P	
800031	1/2 NPT		4	112570	5001657	DT04-2P	
800296	1/2 NPT		4	5001947		DT04-2P	
800334	1/2 NPT	3/8 NPT	4	5001947		DT04-2P	Connector has plastic screw
800500	1/2 NPT	3/8 NPT	5.5	5001947		DT04-2P	Connector has plastic screw
801101	1/2 PTC	Note 2	4	112570	5009412	DTM06-2S	Sup. Prts.: 2-1/2" PTC
801119	1/2 PTC	Note 2	4	112570		DTM06-2S	Sup. Prts.: 1-1/2" PT 1-1/2" PTC

Note 1: Mounting bracket 5001657 has three 5/16"-18 x 1.35" studs. Mounting bracket 5005776 has two 3/8"-16 and three 5/16"-18 threaded holes. Mounting bracket 5009412 has two M8x1.25-5H threaded holes and two .55" holes.

Note 2: One vertical delivery port is 3/8" pipe thread (PT) and one is 3/8" push-to-connect (PTC).



#### NOTE

DETAIL AND SUB-ASSEMBLY PARTS OTHER THAN THOSE SHOWN IN THE MAINTENANCE KIT ARE NOT AVAILABLE FOR SERVICE.

#### MAINTENANCE KIT 109359

CONTAINS THE FOLLOWING PARTS KEYED TO THE EXPLODED ILLUSTRATION:

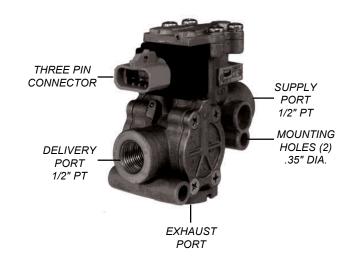
KEY NO.	QTY.	DESCRIPTION
1	1	RETAINING RING
2	1	EXH COVER CPL
3	1	O-RING
4	1	O-RING
5	1	VALVE SPRING
6	1	VALVE RETAINER
7	1	INL & EXH VALVE
8	1	O-RING
9	1	O-RING
10	1	SEALING RING
11	1	RETAINING RING
12	1	CHECK VALVE
13	1	CHK VLV GUIDE
14	1	SPRING
15	1	O-RING
16	1	O-RING
17	1	O-RING
18	1	O-RING
19	1	SPRING
20	1	O-RING
21	1	O-RING
22	1	O-RING
23	1	O-RING
24	1	SPRING
25	1	VALVE
26	1	O-RING
27	1	RETAINING RING

M-21 CHANGEOVER		
	Service	
Pc. No.	Pc. No.	
65337	65337	
65412	65337	
108575	65337	
550414	65337	
550436	65337	
550443	65337	
550530	65337	
5002620	65337	
5006703	65337	

#### **Interchange Note**

An M-21 can be replaced with an M-30 however note that the air lines (supply & delivery) do not enter the valves in the same position relative to the electrical connector. If two modulators are used on an axle or tandem, both should be changed to the same model.

The exhaust port of the M-21 and M-30 must point toward the road surface.



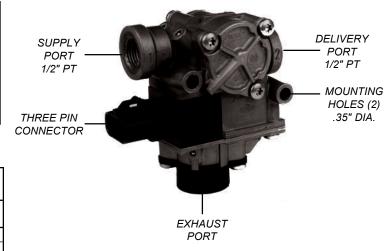
SERVICE PART NUMBER 065337

#### M-22 Modulator

M-22 Obsolete Superceded By M-30 Modulator

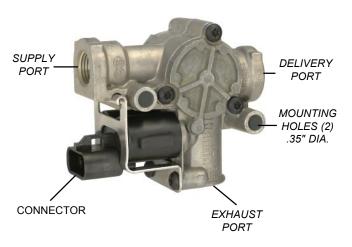
M-22 TO M-30 CHANGEOVER		
M-22	M-30	
Pc. No.	Pc. No.	
800014	800665	
800357	800665	
800451	800666	
5000007	800665	
5001108	800665	
5001252	800968	
5001764	800665	
5001810	800665	

M-22 TO M-30		
<b>CHANG</b>	<b>EOVER</b>	
M-22	M-30	
Pc. No.	Pc. No.	
5001934	800665	
5002108	800665	
5002109	800665	
5002744	800665	
5003213	800665	
5003737	800665	
5004820	800666	



#### **Interchange Note**

Both modulators on a single axle must be of the same type or model. When replacing a M-22 with an M-30 modulator, both M-22 modulators on the axle must be replaced at the same time so that the same modulator model is installed on each end of the axle. The M-22 and M-30 may be mixed on the same vehicle but not on the same axle.



M-30 ANTILOCK MODULATOR

M-30 MODULATOR SERVICE PART NUMBERS				
Pc. No.	Supply	Delivery	Conn.	Comments
	Port	Port	Color 1	
800665	1/2" NPT	1/2" NPT	Black	
800968	1/2" NPT	1/2" NPT	Black	Silenced
801077	1/2" NPT	1/2" NPT	White	
801323	1/2" NPT	1/2" NPT		Euro
801078	1/2" NPT	1/2" PTC	Black	
801079	1/2" NPT	1/2" PTC	White	
801080	1/2" NPT	1/2" STC	Black	
801081	1/2" NPT	1/2" STC	White	
800666	1/2" PTC	1/2" PTC	Black	
800794	5/8" PTC	1/2" NPT	Black	
800795	5/8" PTC	1/2" NPT	White	
801082	5/8" PTC	1/2" STC	Black	
801083	5/8" PTC	1/2" STC	White	

<sup>1</sup> The Black or White color of the M-30 electrical connector has no effect on operation and is used by some vehicle manufacturers to mate with like colored wiring connectors on the vehicle wiring harness.



STC Air Connection (Snap-To-Connect)



PTC
Air Connection
(Push-To-Connect)



NPT
Air Connection
(Pipe Thread)

#### M-30 MODULATOR PART NUMBER CHANGEOVER

M-30 CHANGEOVER		
	Service	
Pc. No.	Pc. No.	
5005312	800665	
5005894	800665	
5005895	800666	
5005915	801078	
5005918	801081	
5006432	800666	
5006625	800665	
5006626	800666	
5006658	800665	
5006659	800665	
5006678	800665	
5006679	801077	
5006680	800670	
5006681	800671	
5006682	800670	
5006683	800671	
5006874	800665	
5006875	800665	
5006876	800665	

M-30 CHANGEOVER		
	Service	
Pc. No.	Pc. No.	
5007135	800665	
5007891	800794	
5007892	800795	
5007893	800796	
5007894	800797	
5007895	800798	
5007896	800799	
5007897	800794	
5007898	800795	
5007899	800796	
5007900	800797	
5007901	800798	
5007902	800799	
5008128	800665	
5008129	800665	
5008487	800796	
5008488	800797	
5008539	800858	
5008540	800859	

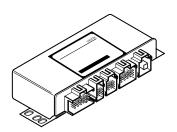
<b>M-30 CHANGEOVER</b>		
	Service	
Pc. No.	Pc. No.	
5008541	800858	
5008542	800859	
5008545	800858	
5008546	800859	
5008926	800968	
5008927	800968	
5008951	800968	
5008981	800665	
5008982	800665	
5009085	801083	
5009086	801082	
5009304	801077	
5009305	801078	
5009306	801079	
5009308	801080	
5009309	801081	
5011025	801323	
5011026	801323	
5011027	801323	

## Cab-Mount Electronic Control Units (ECUs)

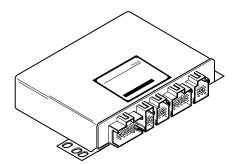
#### Truck, Bus, Coach

## **Basic Generation 5 Control Unit**With Power Line Carrier (PLC)

#### **Basic Generation 4 Control Unit**



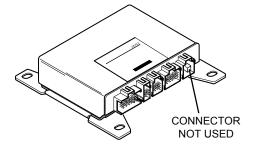
## Standard Generation 5 Control Unit With Power Line Carrier (PLC)



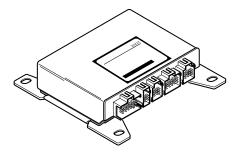
#### **Standard Generation 4 Control Unit**

#### Changeover:

Previous model 300325 is replaced by 300410 Previous model 300143 is replaced by 300410 Previous model 300209 is replaced by 300223



#### **Standard Generation 4 Control Unit**



#### Limited Stock of Earlier Models may be Available

300069 (Call for availability)

300125 (Once limited stock on hand is depleted, replacement part is 300223) 300144 (Once limited stock on hand is depleted, replacement part is 300344) 300239 (Once limited stock on hand is depleted, replacement part is 300223)

## Frame-Mount Electronic Control Units (ECUs)

Truck, Bus, Coach Antilock 13-PWR-17

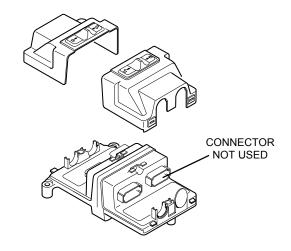
#### Truck, Bus, Coach

<b>Basic Generation 5 Control Unit</b>
With Power Line Carrier (PLC)

4-Channel ABS only, No Engine Data Link . . . . 300343

**Basic Generation 4 Control Unit** 

4-Channel ABS/ATC, J1922	300199
4-Channel ABS/ATC, J1939	300208

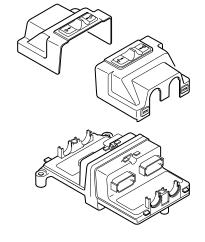


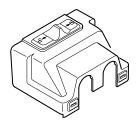
## Standard Generation 5 Control Unit With Power Line Carrier (PLC)

6-Channel ABS/ATC, J1939	300345
6-S/6-M, ATC, Retarder Control via Data Link, J19	939
(Special Order)	300368
4-S/4M, ATC, Retarder Control via Data Link, J19	39
(Special Order)	300367

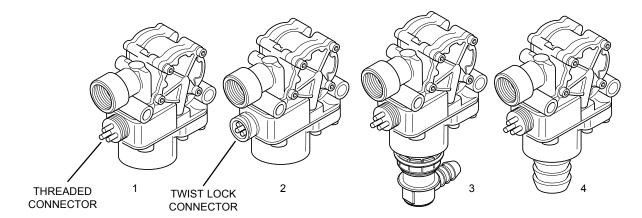
#### **Standard Generation 4 Control Unit**

6-Channel ABS/ATC, J1939	300149
6-Channel ABS/ATC, J1939, 24 volt (Military)	300130





#### Truck/Tractor

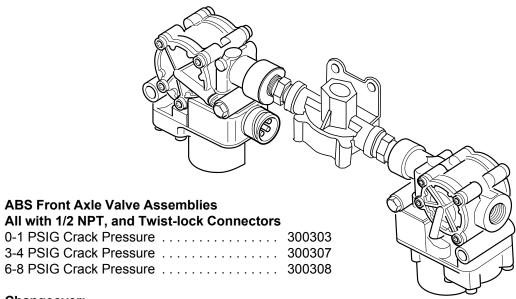


#### **Pressure Modulator Valves**

(1) 12 volt, Threaded, Metric-Threaded Ports . 300073 Two equivalent (1) 12 volt, Threaded, Metric-Threaded Ports . 300386 Two equivalent (2) 12 volt, Twist-lock, NPT-Threaded Ports . 300280 Two equivalent (2) 12 volt, Twist-lock, NPT-Threaded Ports . 300387 models are available (3) 24 volt, Military, with 90° Snorkel . . . . . . . 300127

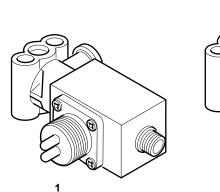
(4) 24 volt, Military, with High Flow Snorkel . . . 300248

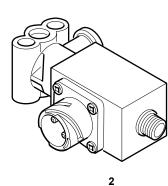
## Truck/Tractor Steer Axle ABS Valve Assemblies with Twist-Lock Connectors

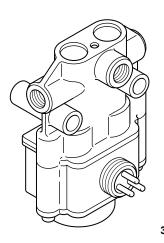


#### **Changeover:**

Previous model 300299 is replaced by 300303 Previous model 300300 is replaced by 300307 Previous model 300301 is replaced by 300308



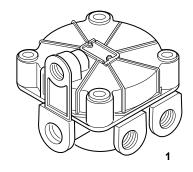


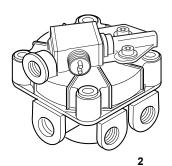


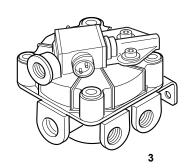
#### **Traction Control Valves**

(1) 12 volt, Single Channel, Threaded Connectors	300132
(1) 24 volt, Military, Single Channel, Threaded Connectors .	300128
(2) 12 volt, Single Channel, Twist-lock Connectors	300354
(3) Dual Channel, Threaded Connectors	300074

#### **Truck/Tractor Relay Valves**



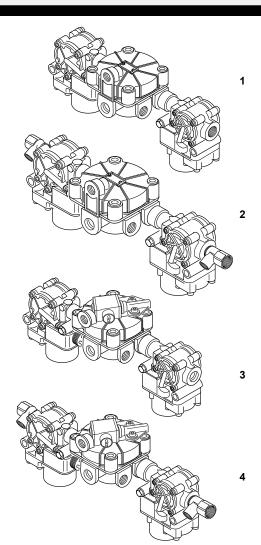




#### **Four Port Tractor Relay Valves**

(1) 4.0 PSIG Crack Pressure	
(2) 4.0 PSIG Crack Pressure, ATC with Threaded Connectors	
(3) 5.5 PSIG Crack Pressure, ATC with Twist-Lock Connectors	300317

#### **Rear Axle Valve Assemblies**



#### **Rear Axle Valve Assemblies** with Threaded Connectors

#### Rear Axle Valve Assemblies with Threaded **Connectors**

(1) 4.0 PSIG Crack Pressure (fittings provided by OEM)	300202
(fittings provided by OEM)	300203
(2) 4.0 PSIG Crack Pressure (two tee fittings)	300200
(two tee fittings)	300201
(3) 4.0 PSIG Crack Pressure, ATC, (fittings provided by OEM)	300148
(4) 5.5 PSIG Crack Pressure, ATC, (two tee fittings)	300153

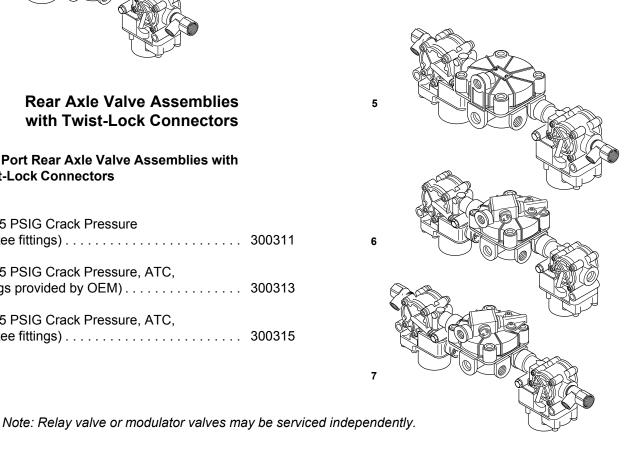
#### Changeover:

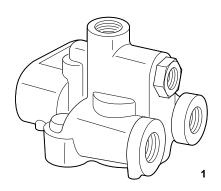
Previous model 300134 is replaced by 300202

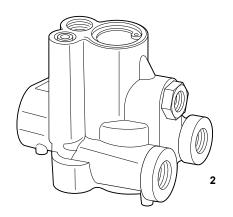
#### **Rear Axle Valve Assemblies** with Twist-Lock Connectors

#### Four Port Rear Axle Valve Assemblies with **Twist-Lock Connectors**

(5) 5.5 PSIG Crack Pressure (two tee fittings)	300311
(6) 5.5 PSIG Crack Pressure, ATC, (fittings provided by OEM)	300313
(7) 5.5 PSIG Crack Pressure, ATC, (two tee fittings)	300315







#### **Spring Brake Control Valves**

(1) TEV	(Spring Brake Priority)	 300251
( · / · L ·	(Opining Brance i Hority)	 000201

(2) STEV (Service Brake Priority) . . . . . . . . 300252

## SENSOR CONNECTION HARNESS CONNECTION

#### **Wheel End Speed Sensor Extension Harnesses**

3.3 ft. (1.0 m.)	300257
6.6 ft. (2.0 m.)	300258
9.8 ft. (3.0 m.)	300259
13.2 ft. (4.0 m.)	300260

#### SENSOR CONNECTION

**ECU CONNECTION** 



## Wheel End Speed Sensor Extension Harnesses with One End Unterminated

6.6 ft. (2.0 m.)	300090
9.8 ft. (3.0 m.)	300091
16.4 ft. (5.0 m.)	300092
26.3 ft. (8.0 m.)	300093
32.8 ft. (10.0 m.)	300094
39.4 ft. (12.0 m.)	300095

#### VALVE CONNECTION

**ECU CONNECTION** 



## Threaded Modulator Valve Extension Harnesses with One End Unterminated

3.3 ft. (1.0 m.)	300113
9.8 ft. (3.0 m.)	300096
13.1 ft. (4.0 m.)	300097
19.7 ft. (6.0 m.)	300098
25.1 ft. (7.6 m.)	300384
29.5 ft. (9.0 m.)	300099
39.4 ft. (12.0 m.)	300100
49.2 ft. (15.0 m.)	300101

#### VALVE CONNECTION

**ECU CONNECTION** 

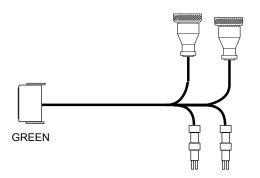


## **Bayonet Modulator Valve Extension Harnesses with One End Unterminated**

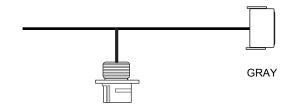
## Tractor/Truck Wiring Harness Accessories

Antilock

## 13-PWR-23

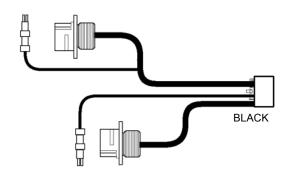


#### Motor Coach Harnesses Gen 4 or 5

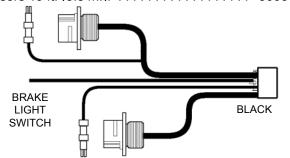


## **Motor Coach Power and Diagnostic Harnesses Gen** 4 or 5

ECU to breakout 28.0 ft (8.5 m.),
Breakout to SAE J1587 3.0 ft. (0.9 m.),
Breakout to electric panel 6.0 ft. (1.8 m.) . . . . . 300242
ECU to breakout 24.0 ft (7.3 m.),
Breakout to SAE J1587 3.0 ft. (0.9 m.),
Breakout to electric panel 6.0 ft. (1.8 m.) . . . . . 300321

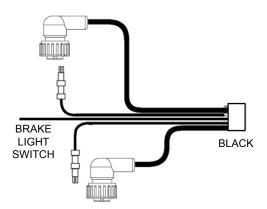


#### **Motor Coach Front Chassis Harnesses**



#### **Motor Coach Front Chassis Harnesses**

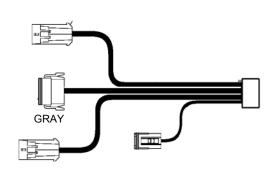
Four Channel, Threaded Connector Connectors 16 ft. (4.9 m.) and 18 ft. (5.5 m.), Sensors 19 ft. (5.8 m.), Brake Light Switch Cable 25 ft. (7.6 m.) . . . . . 300388



#### **Motor Coach Front Chassis Harnesses**

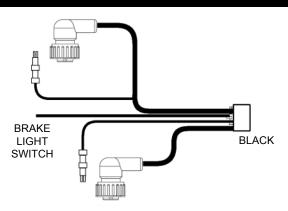
Four Channel, with Bayonet Connector Connectors 18.7 ft. (5.7 m.), Sensors 20.7 ft. (6.3 m.) and 19.7 ft. (6.0 m.), Brake Light Switch Cable 31 ft. (9.4 m.) . . . . . 300396

## Tractor/Truck Wiring Harness Accessories Continued



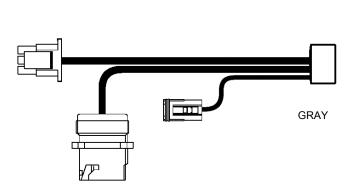
#### **Power Harness**

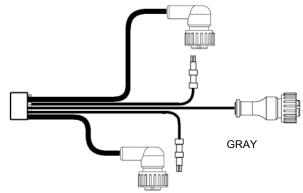
2.6 ft (0.8 m.), Packard Connectors 2.6 ft. (0.8 m.), Deutch J1939 Connector 1.0 ft. (0.3 m.). . . . . . 300182



#### **Motor Coach Front Chassis Harnesses**

Four Channel, with Bayonet Connector Connectors 16 ft. (4.9 m.) and 18 ft. (5.5 m.), Sensors 20.7 ft. (6.3 m.) and 19.7 ft. (6.0 m.), Brake Light Switch Cable 31 ft. (9.4 m.) . . . . . 300394





#### **Power Harness**

34.5 ft (10.5 m.), Deutch Connector 31 ft. (9.4 m.), Deutch J1939 Connector 3.0 ft. (0.9 m.). . . . . . 300390

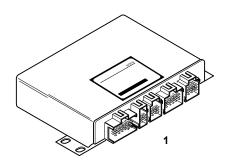
#### Rear Power Harness, 4 Channel, with ATC

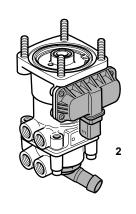
Modulator Connectors 20 ft. (6.1 m.) and 22 ft. (6.7 m.),

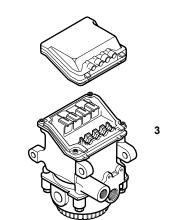
# Electronically-Controlled Brake System Components

Antilock

# 13-PWR-25

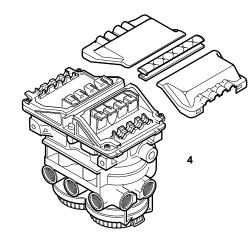


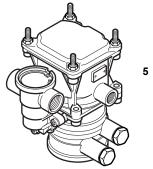




## **Electronically Controlled Brake System Components**

(1) ECU, 12 volt	
(2) Treadle Valve	300159
<ul><li>(3) Pressure Control Module, 1 Channel,</li><li>12 volt, Metric Threads</li></ul>	300160
(4) Pressure Control Module, 2 Channels, 12 volt, Metric Threads	300161
(5) Trailer Control Module, 12 volt,  Metric Threads	300302
(6) Axle load Sensor (Air Bag Pressure Sensor)	300162
(7) Sensor Extension Cable, 1.5 ft. (0.45 m.) (7) Sensor Extension Cable, 1.5 ft. (0.45 m.)	









## **Bendix ABS for Trailers**

**Antilock Systems and Components** 

# Bendix EC-30 ABS Pages 13-TLR-1 to 13-TLR-13







## Gen 4 and Gen 5 ABS

(formerly marketed under the Eaton® brand name)

Pages 13-TLR-14 to 13-TLR-20







## IMPORTANT REPLACEMENT INFORMATION

The **MC-12** Modulator Controller and all of its subassemblies and components are **OBSOLETE** and must be replaced with a complete MC-30 assembly and pigtail wire harness. MC-30 conversion kits, which contain both the MC-30 and the appropriate pigtail wire harness, have been developed to assist in the change over. Refer to the MC-30 Conversion Kit Catalog Page for kit contents.



#### **BRACKET MOUNTED MC-12**

BRACKET MOUNTED MC-12 4 PSI CRACK PRESSURE					
MC-12	MC-12 Replace With MC-30				
Pc. No. MC-30 Kit Equivalent <sup>1</sup>					
65366	Kit Group 2	800820			
550450	Kit Group 2	800820			
800138	Kit Group 2	800820			
5001628	Kit Group 2	800820			

NOTE 1: MC-30 that is similar to the MC-12 shown in the left column

## IMPORTANT REPLACEMENT KIT NOTE

Each Kit Group (1, 2, & 3) contains five different replacement kit numbers. The difference between the five replacement kits is the type of connector used on the power lead of and the length of the power lead on the pigtail wiring harness included in the kit. Power leads can have either a 3, 4 or 5 pin connector and the lead can be either 19.5 feet or 5 feet in length.

See the MC-30 Conversion Kit Catalog Page for kit contents and additional information.



#### **RESERVOIR MOUNTED MC-12**

RESERVOIR MOUNTED MC-12 4 PSI CRACK PRESSURE			
MC-12	Replace With	MC-30	
Pc. No.	MC-30 Kit	Equivalent <sup>1</sup>	
65281	Kit Group 1	800737	
65447	Kit Group 1	800737	
65524	Kit Group 1	800737	
550289	Kit Group 1	800737	
550711	Kit Group 1	800737	
800574	Kit Group 1	800737	
800834	Kit Group 1	800737	
5001139	Kit Group 1	800737	
5005543	Kit Group 1	800737	
5008309	Kit Group 1	800737	

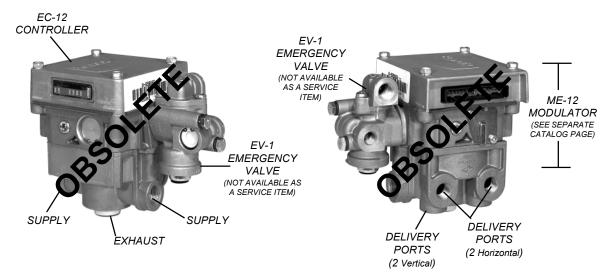
NOTE 1: MC-30 that is similar to the MC-12 shown in the left column

RESERVOIR MOUNTED MC-12 5.5 PSI CRACK PRESSURE				
MC-12 Replace With MC-30				
Pc. No. MC-30 Kit Equivalent				
65530	Kit Group 3	801132		
550719	Kit Group 3	801132		

NOTE 1: MC-30 that is similar to the MC-12 shown in the left column

## IMPORTANT REPLACEMENT INFORMATION

The MCE-12 Modulator Controller for converter dollies and all of its subassemblies and components are **OBSOLETE** and must be replaced with a complete MC-30 assembly and pigtail wire harness. MC-30 conversion kits, which contain the MC-30, the appropriate pigtail wire harness and air valves, have been developed to assist in the change over. Refer to the MC-30 Conversion Kit Catalog Page for kit contents.



BRACKET MOUNTED MCE-12 4 PSI CRACK PRESSURE				
MCE-12 Replace With MC-30				
<b>Pc. No.</b> 65297	MC-30 Kit Kit Group 4	Equivalent <sup>1</sup> 800820		
65396	Kit Group 4	800820		
65422	Kit Group 4	800820		
65444	Kit Group 4	800820		
65639	Kit Group 4	800820		
550714	Kit Group 4	800820		
800368	Kit Group 4	800820		
5003959	Kit Group 4	800820		

NOTE 1: MC-30 that is similar to the MCE-12 shown in the left column

BRACKET MOUNTED MCE-12 5.5 PSI CRACK PRESSURE					
MCE-12	MCE-12 Replace With MC-30				
Pc. No. MC-30 Kit Equivale					
800547	Kit Group 5	801133			
5005226	Kit Group 5	801133			

NOTE 1: MC-30 that is similar to the MCE-12 shown in the left column

## IMPORTANT REPLACEMENT KIT NOTE

Each Kit Group (4 & 5) contains five different replacement kit numbers. The difference between the five replacement kits is the type of connector used on the power lead of and the length of the power lead on the pigtail wiring harness included in the kit. Power leads can have either a 3, 4 or 5 pin connector and the lead can be either 19.5 feet or 5 feet in length.

See the MC-30 Conversion Kit Catalog Page for kit contents and additional information.

## IMPORTANT REPLACEMENT INFORMATION

The **EC-12** Controller is **OBSOLETE** and must be replaced with a complete MC-30 modulator controller assembly. A series of MC-30 conversion kits have been developed to assist in the change over.

Because the EC-12 cannot be replaced without also replacing the modulator it controls, it is necessary to determine the style and crack pressure of the modulator assembly. A kit group containing five different kits is shown for each modulator style. The difference between the five replacement kits is the type of connector used on the power lead of and the length of the power lead on the pigtail wiring harness included in the kit. Power leads can have either a 3, 4 or 5 pin connector and the lead can be either 19.5 feet or 5 feet in length.

See the MC-30 Conversion Kit Catalog Page for kit contents and additional information.





#### **EC-12 CONTROLLER**

#### **BRACKET MOUNTED MC-12**



#### **RESERVOIR MOUNTED MC-12**



#### **BRACKET MOUNTED MCE-12**

# 0850

#### BRACKET MOUNTED MC-12 4 PSI CRACK PRESSURE

Use one of the five kits in Kit GROUP 2 to replace this style MC-12

#### RESERVOIR MOUNTED MC-12 4 PSI CRACK PRESSURE

Use one of the five kits in Kit GROUP 1 to replace this style MC-12

#### RESERVOIR MOUNTED MC-12 5.5 PSI CRACK PRESSURE

Use one of the five kits in Kit GROUP 3 to replace this style MC-12

#### BRACKET MOUNTED MCE-12 4 PSI CRACK PRESSURE

Use one of the five kits in Kit GROUP 4 to replace this style MC-12

#### BRACKET MOUNTED MCE-12 5.5 PSI CRACK PRESSURE

Use one of the five kits in Kit GROUP 5 to replace this style MC-12

## IMPORTANT REPLACEMENT INFORMATION

The **M-12** Modulator is **OBSOLETE** and must be replaced with a complete MC-30 assembly and pigtail wire harness. MC-30 conversion kits, which contain both the MC-30 and the appropriate pigtail wire harness, have been developed to assist in the change over. Refer to the MC-30 Conversion Kit Catalog Page for kit contents.



#### **RESERVOIR MOUNTED MC-12**

RESERVOIR MOUNTED M-12 4 PSI CRACK PRESSURE			
M-12	M-12 Replace With		
Pc. No.	MC-30 Kit		
65282	Kit Group 1		
65448	Kit Group 1		
550291	Kit Group 1		
550579	Kit Group 1		

RESERVOIR MOUNTED MC-12 5.5 PSI CRACK PRESSURE			
	MC-12 Replace With		
Pc. No. MC-30 Kit			
65531	Kit Group 3		
550721	Kit Group 3		

#### IMPORTANT REPLACEMENT KIT NOTE

Either of two (2) MC-30 kits can be used to replace each M-12. The difference between the two replacement kits shown for each M-12 is the length of the pigtail wiring harness included in the kit.

The first replacement kit part number shown contains a pigtail harness that is **5 feet in length** while the second kit part number contains a pigtail harness that is **19.5 feet in length**.



#### **BRACKET MOUNTED MC-12**

BRACKET MOUNTED M-12 4 PSI CRACK PRESSURE			
M-12	Replace With		
Pc. No.	MC-30 Kit		
65346	Kit Group 2		
65367	Kit Group 2		
65392	Kit Group 2		
550423	Kit Group 2		
550452	Kit Group 2		
550514	Kit Group 2		

#### M-12 MAINTENANCE KIT 102802

Is still available to service the lower relay valve section of the modulator. Solenoid and electrical components and subassemblies are not available. The following parts are contained in the kit:

#### QTY. DESCRIPTION

- 1 RETAINING RING
- 1 EXH COVER CPL
- 1 O-RING
- 1 O-RING
- 1 VALVE SPRING
- 1 VALVE RETAINER
- 1 INL & EXH VALVE
- 1 O-RING
- 1 O-RING

Note: The gasket (560355) used between the controller and M-12 modulator must be purchased separately. Detail parts other than those listed above are not available for service.

## IMPORTANT REPLACEMENT INFORMATION

The **ME-12** Modulator is **OBSOLETE** and must be replaced with a complete MC-30 assembly and pigtail wire harness. MC-30 conversion kits, which contain the MC-30, appropriate pigtail wire harness and required air valving, have been developed to assist in the change over. Refer to the MC-30 Conversion Kit Catalog Page for kit contents.

A maintenance kit for the ME-12 is still available and shown here.



#### **BRACKET MOUNTED ME-12**

BRACKET MOUNTED ME-12 4 PSI CRACK PRESSURE			
ME-12 Replace With			
Pc. No.	MC-30 Kit Pc. No.		
65644	Kit Group 4		

BRACKET MOUNTED ME-12 5.5 PSI CRACK PRESSURE		
ME-12 Replace With		
Pc. No.	MC-30 Kit Pc. No.	
800548	Kit Group 5	

#### ME-12 MAINTENANCE KIT 102802

Is still available to service the lower relay valve section of the modulator. Solenoid and electrical components and subassemblies are not available. The following parts are contained in the kit:

#### QTY. DESCRIPTION

- 1 RETAINING RING
- 1 EXH COVER CPL
- 1 O-RING
- 1 O-RING
- 1 VALVE SPRING
- 1 VALVE RETAINER
- 1 INL & EXH VALVE
- 1 O-RING
- 1 O-RING

Note: The gasket (560355) used between the controller and ME-12 modulator must be purchased separately. Detail parts other than those listed above are not available for service.

#### IMPORTANT REPLACEMENT KIT NOTE

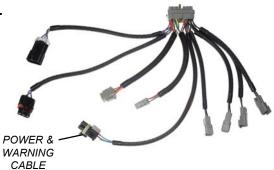
Either of two (2) MC-30 kits can be used to replace each ME-12. The difference between the two replacement kits shown for each ME-12 is the length of the pigtail wiring harness included in the kit.

The first replacement kit part number shown contains a pigtail harness that is **5 feet in length** while the second kit part number contains a pigtail harness that is **19.5 feet in length**.





MC-30 BRKT. MT



MC-30 RES. MT.

#### **PIGTAIL WIRE HARNESS**

#### MC-12 TO MC-30 TRAILER CONVERSION KITS CONTAIN:

QTY. PC. NO. DESCRIPTION

SEE CHART MC-30 MODULATOR CONTROLLER ASSY

1 SEE CHART PIGTAIL WIRE HARNESS

Kit Pc.	MC-30 Assembly			Pigtail Wire Harness		
Nos.	MC-30	Mtg.	Crack	Assy.	Power	Lead
	Pc. No.	Config.	Press.	Pc. No.	Conn.	Length
		K	it Group	1		
5008564	800736	Res.	4 psi	800776	5 Pin	5 Ft.
5008567	800736	Res.	4 psi	800779	5 Pin	19.5 Ft.
5010953	800736	Res.	4 psi	5010681	4 Pin	17 ln.
5010958	800736	Res.	4 psi	5010373	4 Pin	8 Ft.
5010963	800736	Res.	4 psi	5010680	3 Pin	17 ln.
		K	it Group	2		
5008565	800819	Brht.	4 psi	800776	5 Pin	5 Ft.
5008568	800819	Brht.	4 psi	800779	5 Pin	19.5 Ft.
5010954	800819	Brht.	4 psi	5010681	4 Pin	17 ln.
5010959	800819	Brht.	4 psi	5010373	4 Pin	8 Ft.
5010964	800819	Brht.	4 psi	5010680	3 Pin	17 ln.
		K	it Group	3		
5009732	801132	Res.	5.5 psi	800776	5 Pin	5 Ft.
5009734	801132	Res.	5.5 psi	800779	5 Pin	19.5 Ft.
5010956	801132	Res.	5.5 psi	5010681	4 Pin	17 ln.
5010961	801132	Res.	5.5 psi	5010373	4 Pin	8 Ft.
5010966	801132	Res.	5.5 psi	5010680	3 Pin	17 ln.

## MCE-12 to EC-30 Dolly Conversion Kits



MC-30 BRKT. MT



DC-4 PC. NO. 278615



**PIGTAIL WIRE HARNESS** 



TR-3 PC. NO. 101450

#### MCE-12 TO MC-30 DOLLY CONVERSION KITS CONTAIN:

QTY. PC. NO.

1 SEE CHART MC-30 MODULATOR CONTROLLER ASSY
1 SEE CHART PIGTAIL WIRE HARNESS
1 101450 TR-3 INVERSION VALVE
1 278615 DC-4 DOUBLE CHECK VALVE

Kit Pc.	MC-30 Assen		nbly Pig		ail Wire Harness	
Nos.	MC-30 Mtg.		Crack	Assy.	Power	Lead
	Pc. No.	Config.	Press.	Pc. No.	Conn.	Length
		K	it Group	4		
5008566	800819	Brkt.	4 psi	800776	5 Pin	5 Ft.
5008560	800819	Brkt.	4 psi	800779	5 Pin	19.5 Ft.
5010955	800819	Brkt.	4 psi	5010681	4 Pin	17 ln.
5010960	800819	Brkt.	4 psi	5010373	4 Pin	8 Ft.
5010965	800819	Brkt.	4 psi	5010680	3 Pin	17 ln.
Kit Group 5						
5009733	801133	Brkt.	5.5 psi	800776	5 Pin	5 Ft.
5009735	801133	Brkt.	5.5 psi	800779	5 Pin	19.5 Ft.
5010957	801133	Brkt.	5.5 psi	5010681	4 Pin	17 ln.
5010962	801133	Brkt.	5.5 psi	5010373	4 Pin	8 Ft.
5010967	801133	Brkt.	5.5 psi	5010680	3 Pin	17 ln.

**Antilock** 

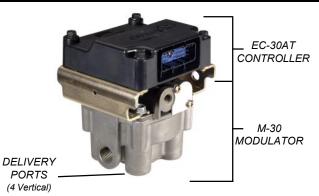
13-TLR-9

#### MC-30 MODULATOR CONTROLLER ASSEMBLY

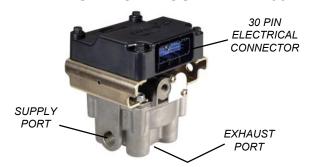
The MC-30 is the Bendix Antilock Braking System (ABS) controller assembly intended for application on air braked heavy duty trailers, semi-trailers and dollies. The Bendix MC-30 incorporates an integral LED diagnostic display with magnic reset for easy diagnostics and fault code clearing. Blink code diagnostics are standard and advanced diagnostic tool support is also available. MC-30 supports PLC communication for warning lamp, full diagnostics capability. Other customized options are available in this feature rich ABS system. The ABS function of the MC-30 is designed to provide a towed vehicle with improved stability and control during braking while providing the maximum available braking force. For complete information see Bendix Service Data Sheet SD-13-4834.



#### **BRACKET MOUNTED MC-30**



#### **RESERVOIR MOUNTED MC-30**



#### **RESERVOIR MOUNTED MC-30**

MC-30 CHANGEOVER				
Do No	Service			
Pc. No.	Pc. No.			
5007641	801241			
5007642	801241			
5007643	801242			
5007644	801242			
5007645	801241			
5007646	801242			
5008263	801245			
5008264	801245			
5008265	801247			
5008266	801247			
5008267	801245			
5008268	801247			

MC-30 CHANGEOVER			
	Service		
Pc. No.	Pc. No.		
5010569	801231		
5010612	801241		
5010613	801241		
5010614	801241		
5010615	801241		
5010616	801241		
5010617	801241		
5010618	801242		
5010619	801242		
5010620	801242		
5010621	801242		

MC-30 CHANGEOVER			
	Service		
Pc. No.	Pc. No.		
5008502	801241		
5008503	801241		
5008504	801241		
5008505	801242		
5008506	801242		
5008507	801242		
5008533	801245		
5008534	801245		
5008535	801245		
5008536	801247		
5008537	801247		
5008538	801247		

<u> </u>			
MC-30 CHANGEOVER			
	Service		
Pc. No.	Pc. No.		
5010622	801242		
5010623	801242		
5010624	801243		
5010625	801243		
5010626	801243		
5010627	801245		
5010628	801245		
5010629	801245		
5010630	801245		
5010631	801245		
5010632	801245		

MC-30 CHANGEOVER			
	Service		
Pc. No.	Pc. No.		
5009157	801248		
5009526	801246		
5009710	801243		
5009711	801243		
5009713	801249		
5009714	801249		
5009722	801132		
5009723	801133		
5010027	801243		
5010028	801249		
5010568	801230		

MC-	••
CHANG	EOVER
	Service
Pc. No.	Pc. No.
5010633	801246
5010634	801247
5010635	801247
5010636	801247
5010637	801247
5010638	801247
5010639	801247
5010640	801248
5010641	801249
5010642	801249
5010643	801249

MC-30		EC-30	M-30	Crack	EC-30	Horiz.	Vert.	Potential	
Serv.	Mtg.	Serv.	Serv.	Press.	Rotn.	Del.	Del.	MC-30	Comments (Note 2)
Pc. No.		Pc. No.	Pc. No.		(Note 1)	Ports	Ports	Replcmt.	
800736	Res.	800734	800740	4	90		4 - 3/8 PT	801241	No PLC
800737	Res.	800735	800740	4	90		4 - 3/8 PT	801242	
800819	Brkt.	800734	800821	4	90	2 - 3/8 PT	2 - 3/8 PT	801245	No PLC
800820	Brkt.	800735	800821	4	90	2 - 3/8 PT	2 - 3/8 PT	801247	
801033	Brkt.	800735	800821	4	270	2 - 3/8 PT	2 - 3/8 PT	801248	
801104	Brkt.	800734	800821	4	270	2 - 3/8 PT	2 - 3/8 PT	801246	No PLC
801132	Res.	800735	801135	5.5	90		4 - 3/8 PT	801243	
801133	Brkt.	800735	801136	5.5	90	2 - 3/8 PT	2 - 3/8 PT	801249	
801230	Res.	801229	800740	4	90		4 - 3/8 PT		Steer Axle Control
801231	Brkt.	801229	800821	4	90	2 - 3/8 PT	2 - 3/8 PT		Steer Axle Control
801241	Res.	801267	800740	4	90		4 - 3/8 PT		No PLC
801242	Res.	801268	800740	4	90		4 - 3/8 PT		
801243	Res.	801268	801135	5.5	90		4 - 3/8 PT		
801245	Brkt.	801267	800821	4	90	2 - 3/8 PT	2 - 3/8 PT		No PLC
801246	Brkt.	801267	800821	4	270	2 - 3/8 PT	2 - 3/8 PT		No PLC
801247	Brkt.	801268	800821	4	90	2 - 3/8 PT	2 - 3/8 PT		
801248	Brkt.	801268	800821	4	270	2 - 3/8 PT	2 - 3/8 PT		
801249	Brkt.	801268	801136	5.5	90	2 - 3/8 PT	2 - 3/8 PT		

NOTE 1:Rotation orientation is: looking at the modulator exhaust port and rotating clockwise. NOTE 1. Rotation offendation is counting at the involution exhaust port and rotating cookings. Rotation is from the centerline of the EC-30T (30 pin) connector to the centerline of the bracket for bracket mounted M-30s and from the centerline of the supply port to the centerline of the EC-30T (30 pin) connector for the reservoir mount M-30s.

NOTE 2:Effective March 1, 2001 all towed vehicles must transmit a signal to control an in-cab trailer ABS warning lamp. Trailers built after this date will transmit the status of the trailer ABS unit over the ignition power wire (blue wire of the J560 connector) using Power Line Carrier (PLC) communications. Trailer built before this date can use ABS controllers without the PLC

#### **EC-30 Trailer Controller**

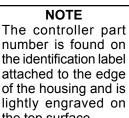
**DIAGNOSTIC** 

WINDOW



**CONNECTOR** 

the top surface.

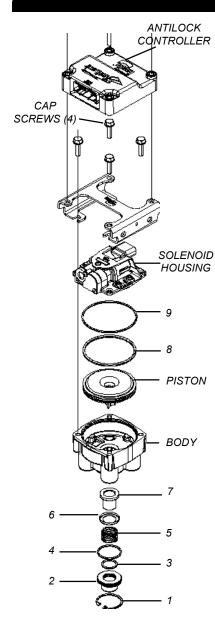


**EC-30 ANTILOCK CONTROLLER** 

MC-30 Serv. Pc. No.	Comments	R
800734	NO PLC	
800735		
801229	AXLE STEER	
801267	NO PLC	

MC-30 TRAILER CONTROLLER CHANGEOVER			
	Service		
Pc. No.	Pc. No.		
5004357	800734		
5004358	800735		
5010172	801267		
5010374	800734		
5010375	800735		
5010428	801166		
5010431	801174		
5010565	801267		
5010566	801268		
5010567	801229		

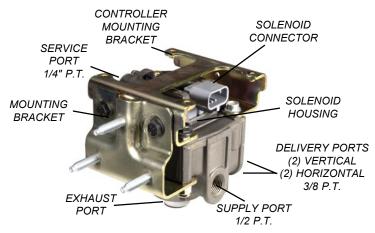
MC-30 Serv. Pc. No.	Comments	Potential Replacement
800734	NO PLC	801267
800735		801268
801229	AXLE STEER	
801267	NO PLC	
801268		



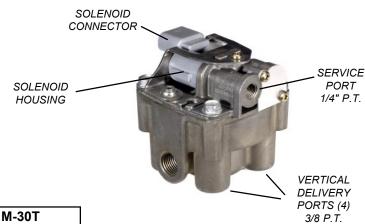
#### **MAINTENANCE KIT 102802**

CONTAINS THE FOLLOWING PARTS KEYED TO THE ILLUSTRATION ABOVE:

KEY NO.	QTY.	DESCRIPTION
1	1	RETAINING RING
2	1	EXH COVER CPL
3	1	O-RING
4	1	O-RING
5	1	VALVE SPRING
6	1	VALVE RETAINER
7	1	INL & EXH VALVE
8	1	O-RING



#### **BRACKET MOUNT M-30T**

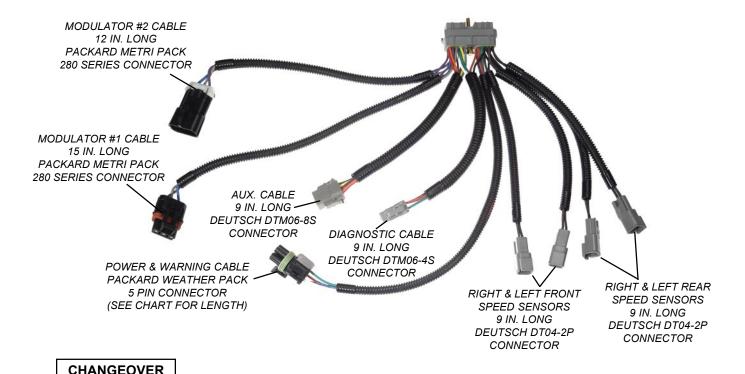


**RESERVOIR MOUNT M-30T** 

M-3 CHANGE	
D. N.	Service
Pc. No.	Pc. No.
5007658	800740
5007660	800741
5008271	800821
5009716	801134
5009718	801135
5009720	801136
5009724	801134
5009725	801135
5009726	801136

Service	Valve	Controller	Cover	Crack
Pc. No.	Style	Mtg. Brkt.	Rotatn.	Press.
800741	RES. MT.	NO	90	4 psi
801134	RES. MT.	NO	90	5.5 psi
800740	RES. MT.	YES	90	4 psi
801135	RES. MT.	YES	90	5.5 psi
800821	BRKT. MT.	YES	90	4 psi
801136	BRKT. MT.	YES	90	5.5 psi

**NOTE 1:** Rotation orientation is: looking at the modulator exhaust port and rotating clockwise. Rotation is from the centerline of the control port to the centerline of the mounting bracket for bracket mounted M-30 and from the centerline of the supply port to the centerline of the control port for all other M-30s.



CHANGEOVER		
O.E.	Service	
Pc. No.	Pc. No.	
5006240	800775	
5007819	800776	
5007820	800777	
5007821	800778	
5007822	800779	
5007823	800780	
5007824	800781	
5007825	800782	
5007826	800783	
5007827	800784	
5007828	800785	
5007829	800786	
5007830	800787	
5008731	800956	
5008732	800957	
5008753	800935	
5008754	800943	
5008755	800951	
5008756	800936	
5008757	800937	
5008758	800938	
5008759	800939	
5008760	800940	
5008761	800941	
5008762	800942	
5008763	800944	
5008764	800945	
5008765	800946	
5008766	800947	
5008767	800948	
5008768	800949	
5008769	800950	
5008770	800952	

Service	Mod.	Aux.	Diag.	Pwr./Warning	Right/Left
Pc. No.	Cable #2	Cable	Cable	Length	Rear Sen.
800775	NO	NO	NO	1.4 FT.	NO
800776	NO	NO	NO	5.0 FT.	NO
800777	NO	NO	NO	10.0 FT.	NO
800778	NO	NO	NO	14.9 FT.	NO
800779	NO	NO	NO	19.5 FT.	NO
800780	NO	NO	YES	1.4 FT.	NO
800956	NO	NO	YES	5.0 FT.	NO
800957	NO	NO	YES	10.0 FT.	NO
800935	NO	NO	YES	14.9 FT.	NO
800936	NO	NO	YES	19.5 FT.	NO
800781	NO	YES	YES	1.4 FT.	NO
800782	YES	NO	NO	1.4 FT.	NO
800937	YES	NO	NO	5.0 FT.	NO
800938	YES	NO	NO	10.0 FT.	NO
800939	YES	NO	NO	14.9 FT.	NO
800940	YES	NO	NO	19.5 FT.	NO
800783	YES	NO	YES	1.4 FT.	NO
800941	YES	NO	YES	5.0 FT.	NO
800942	YES	NO	YES	10.0 FT.	NO
800943	YES	NO	YES	14.9 FT.	NO
800944	YES	NO	YES	19.5 FT.	NO
800784	YES	YES	YES	1.4 FT.	NO
800785	YES	NO	NO	1.4 FT.	YES
800945	YES	NO	NO	5.0 FT.	YES
800946	YES	NO	NO	10.0 FT.	YES
800947	YES	NO	NO	14.9 FT.	YES
800948	YES	NO	NO	19.5 FT.	YES
800786	YES	NO	YES	1.4 FT.	YES
800949	YES	NO	YES	5.0 FT.	YES
800950	YES	NO	YES	10.0 FT.	YES
800951	YES	NO	YES	14.9 FT.	YES
800952	YES	NO	YES	19.5 FT.	YES
800787	YES	YES	YES	1.4 FT.	YES



CHANGEOVER		
O. E. Service		
Pc. No.	Pc. No.	
5007833	800790	
5009193	801038	
5009194	801039	

Service Pc. No.	Cable Length
800790	10 Ft.
801038	6 Ft.
801039	7 Ft.

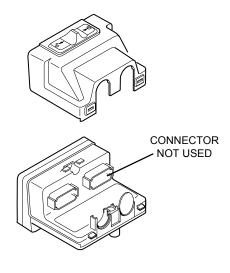
# **Basic Trailer Electronic Control Units (ECUs) & Components**

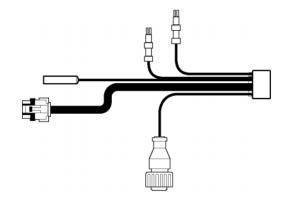
#### **Basic Trailer ECUs and Hardware Components**

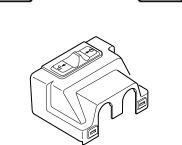
Basic Generation 5 Control Unit	
With Power Line Carrier (PLC)	
Basic 2S-1M only	300340
Basic Generation 5 Control Unit for Dollies	
With Power Line Carrier (PLC)	
Basic 2S-1M only	300405

#### Limited Stock of Earlier Model may be Available

Basic Generation 4 Control Unit
Basic 2S-1M only ......300253
(Once limited stock on hand is depleted, replacement part is
300340)





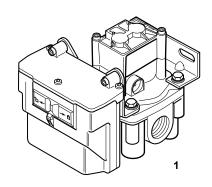


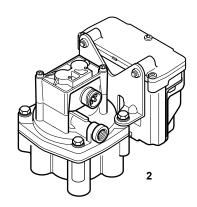


#### **Basic Harnesses**

240.0.141.100000	
2 Sensors, 1 valve, 3.3 ft. (1 m.)	300263
2 Sensors, 1 valve, 9.8 ft. (3 m.)	300264
2 Sensors, 1 valve, 15.1 ft. (4.6 m.)	300262
2 Sensors, 1 valve, 19.7 ft. (6.0 m.)	300265
2 Sensors, 1 valve, 24.6 ft. (7.5 m.)	300298
<b>Diagnostic Extension Harness</b> 8 ft. (2.4 m.)	300281
δ it. (2.4 iii.)	300201
Replacement Cover	300271
Replacement Bracket	300270

#### **Basic Trailer ABS**





(1) Relay Valve with Gen 5 ECU (300340), (PLC), 4.0 PSIG Crack Pressure, 4 Delivery Ports.

Frame-mounted with Bracket ...... 300358

(2) Relay Valve with Gen 5 ECU (300340), (PLC), 4.0 PSIG Crack Pressure, 4 Delivery Ports. 

#### Limited Stock of Earlier Model may be Available

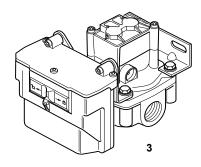
Relay Valve with Gen 4 ECU (300253), 4.0 PSIG Crack Pressure, 4 Delivery Ports. Frame-mounted with Bracket . . . . . . . 300267

(Once limited stock on hand is depleted, replacement part is 300358)

#### Limited Stock of Earlier Model may be Available

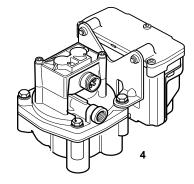
Relay Valve with Gen 4 ECU (300253), 4.0 PSIG Crack Pressure, 4 Delivery Ports. 3/4 NPT Tank-mounted . . . . . . . 300269 (Once limited stock on hand is depleted, replacement part is 300360)

#### Limited Stock of Earlier, Two Delivery Port Models, may be Available



#### **Trailer ABS 2 Delivery Port Models**

(3) Relay Valve with Gen 5 ECU (300340), (PLC), 4.0 PSIG Crack Pressure. Frame-mounted with (Once limited stock on hand is depleted, replacement part is 300358, 2 pipe plugs required.) (3) Relay Valve with Gen 4 ECU (300253) 4.0 PSIG Crack Pressure. Frame-mounted with (Once limited stock on hand is depleted, replacement part is 300357) (3) Dolly Relay Valve with Gen 4 ECU (300253) 4.0 PSIG Crack Pressure. Frame-mounted with



(4) Relay Valve with Gen 5 ECU (300340), (PLC), 4.0 PSIG Crack Pressure.

(Once limited stock on hand is depleted,

replacement part is 300360, 2 pipe plugs required.)

(4) Relay Valve with Gen 4 ECU (300253), 4.0 PSIG Crack Pressure.

(Once limited stock on hand is depleted, replacement part is 300359)

Note: Relay valve or modulator valves may be serviced independently.

#### Standard Trailer ECUs

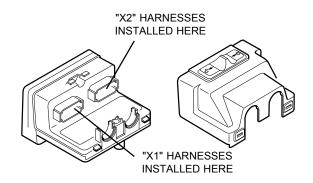
## Standard Generation 5 Control Unit With Power Line Carrier (PLC)

Standard 4S-2M, 2S-2M, 2S-1M, Side Control . . 300341

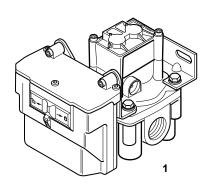
#### Limited Stock of Earlier Model may be Available

Standard Generation 4 Control Unit Standard 4S-2M, 2S-2M, 2S-1M, Side Control . . . . . 300183

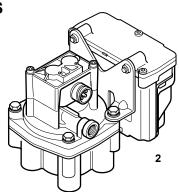
(Once limited stock on hand is depleted, replacement part is 300341)



#### Standard Trailer ABS



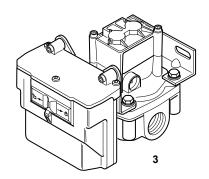
Previous Gen 4 version 300217 is replaced by 300362.



(2) Relay Valve with Gen 5 ECU (300341), (PLC), 4.0 PSIG Crack Pressure, 4 Delivery Ports. 3/4 NPT Tank-mounted . . . . . . . . . . . . . . . . 300364 Changeover:

00362. Previous Gen 4 version 300213 is replaced by 300364.

#### Limited Stock of Earlier, Two Delivery Port Models, may be Available

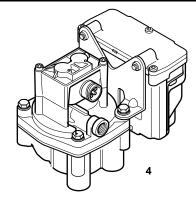


#### **Two Delivery Port Models**

(3) Relay Valve with Gen 5 ECU (300341) (PLC), 4.0 PSIG Crack Pressure.

replacement part is 300362, 2 pipe plugs required.) **Changeover:** 

Previous Gen 4 version 300216 is replaced by 300361.



(4) Relay Valve with Gen 5 ECU (300341) (PLC), 4.0 PSIG Crack Pressure.

replacement part is 300364, 2 pipe plugs required.)

Changeover:

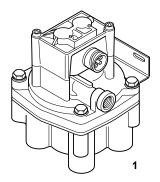
Previous Gen 4 version 300212 is replaced by 300363.

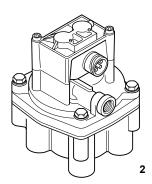
Note: Relay valve or modulator valves may be serviced independently.

## Standard Trailer Hardware Components See opposite page for X1 and X2 Harness installation.

V4 0.1 A 4 1	
X1 - Style A, 1 valve         3.3 ft. (1.0 m.)       300232         9.8 ft. (3.0 m.)       300244         15.1 ft. (4.6 m.)       300220         19.7 ft. (6.0 m.)       300245         24.6 ft. (7.5 m.)       300297	STYLE A
X1 - Style B, 2 valves [all have one valve harness of 1.65 ft (0.5 m.)]         3.3 ft. (1.0 m.), second valve harness 3.3 ft. (1.0 m.)       300231         3.3 ft. (1.0 m.), second valve harness 21.0 ft. (6.4 m.)       300348         3.3 ft. (1.0 m.), second valve harness 38.9 ft. (11.9 m.)       300334         9.8 ft. (3.0 m.), second valve harness 21.0 ft. (6.4 m.)       300246         9.8 ft. (3.0 m.), second valve harness 21.0 ft. (6.4 m.)       300347         9.8 ft. (3.0 m.), second valve harness 38.9 ft. (11.9 m.)       300333         15.1 ft. (4.6 m.), second valve harness 21.0 ft. (6.4 m.)       300349         15.1 ft. (4.6 m.), second valve harness 38.9 ft. (11.9 m.)       300335         19.7 ft. (6.0 m.), second valve harness 21.0 ft. (6.4 m.)       300346         19.7 ft. (6.0 m.), second valve harness 21.0 ft. (6.4 m.)       300346         19.7 ft. (6.0 m.), second valve harness 38.9 ft. (11.9 m.)       300332	STYLE B
X2 - Style C, 2 Sensor Extension Harness, Full Diagnostics 5.9 ft. (1.8 m.) Sensor Harnesses, 9.8 ft. (3.0 m.) Diagnostic Harness . 300218 7.9 ft. (2.4 m.) Sensor Harnesses, 9.8 ft. (3.0 m.) Diagnostic Harness . 300254	STYLE C
X2 - Style D, 4 Sensor Extension Harness, Full Diagnostics Two 5.9 ft. (1.8 m.) and two 7.9 ft. (2.4 m.) Sensor Harnesses, 9.8 ft. (3.0 m.) Diagnostic Harness	STYLE D
X2 - Style E, 2 Sensor Extension Harness, Blink-code Diagnostics 5.9 ft. (1.8 m.) Sensor Harnesses, 9.8 ft. (3.0 m.) Diagnostic Harness . 300233 5.9 ft. (1.8 m.) Sensor Harnesses, 5.9 ft. (1.8 m.) Diagnostic Harness . 300282 8.0 ft. (2.4 m.) Sensor Harnesses, 5.9 ft. (1.8 m.) Diagnostic Harness . 300255	STYLE E
X2 - Style F, 4 Sensor Extension Harness, Blink-code Diagnostics Two 6.0 ft. (1.8 m.) and two 8.0 ft. (2.4 m.) Sensor Harnesses, 10.0 ft. (3.0 m.) Diagnostic Harness	STYLE F
X2 - Style G, Power HarnessPower Harness, with Warning Light Bullet 39.6 ft. (12.0 m.)300225Power Harness, with Warning Light Bullet 49.2 ft. (15.0 m.)300226Power Harness, with Warning Light Bullet 65.6 ft. (20.0 m.)300227	STYLE G

## Trailer Modulator Relay Valves (Without ECU). Used with Gen 4 & 5 ECUs. Twist-Lock Connectors



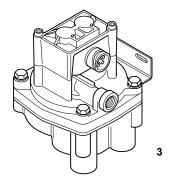


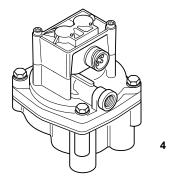
Note: Where 2 port valve is required, unused ports may be plugged.

#### **Trailer Relay Valves**

#### Twist-Lock Connectors, 4 PSIG Crack Pressure

#### Limited Stock of Earlier, Two Delivery Port Models, may be Available





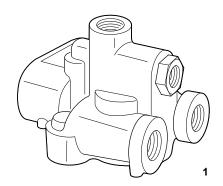
#### **Trailer Relay Valves**

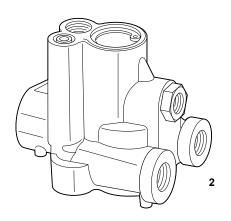
#### **Twist-Lock Connectors, 4 PSIG Crack Pressure**

(3) 2 Delivery ports, frame-mounted with bracket, for use with 2 type-30 chambers. . . . . . . . . . . . 300214 (Once limited stock on hand is depleted, replacement part is 300215, 2 pipe plugs required.)

(4) 2 Delivery ports, 3/4" NPT tank-mounted, for use with 2 type-30 chambers. . . . . . . . . . . . . . 300192 (Once limited stock on hand is depleted, replacement part is 300193, 2 pipe plugs required.)

Note: Relay valve or modulator valves may be serviced independently.

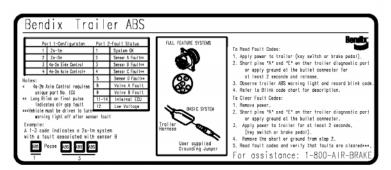




#### **Spring Brake Control Valves**

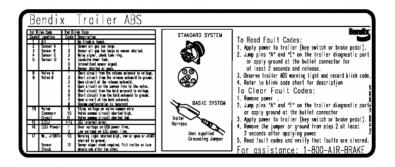
- (1) TEV (Spring Brake Priority) . . . . . . . . . . 300251
- (2) STEV (Service Brake Priority) . . . . . . . . . 300252

#### **Trailer Diagnostic Labels**



#### Trailer Diagnostic Label - Gen 4

Formerly 300275 . . . . . . . . . . . . . . . . . 5011261



#### Trailer Diagnostic Label - Gen 5

Formerly 300381 . . . . . . . . . . . . . . . . . 5011262

#### **Extension Harnesses**

#### SENSOR CONNECTION

#### HARNESS CONNECTION



#### **Wheel End Speed Sensor Extension Harnesses**

3.3 ft. (1.0 m.)	300257
6.6 ft. (2.0 m.)	300258
9.8 ft. (3.0 m.)	300259
13.2 ft. (4.0 m.)	300260

#### SENSOR CONNECTION

#### **ECU CONNECTION**



## Wheel End Speed Sensor Extension Harnesses with One End Unterminated

6.6 ft. (2.0 m.)	300090
9.8 ft. (3.0 m.)	300091
16.4 ft. (5.0 m.)	300092
26.3 ft. (8.0 m.)	300093
32.8 ft. (10.0 m.)	300094
39.4 ft. (12.0 m.)	

#### VALVE CONNECTION

**ECU CONNECTION** 



## Threaded Modulator Valve Extension Harnesses with One End Unterminated

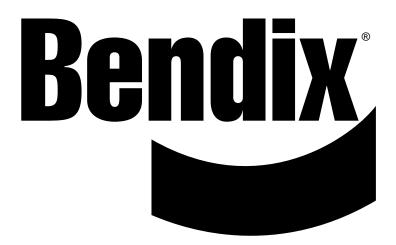
3.3 ft. (1.0 m.)	 300113
9.8 ft. (3.0 m.)	 300096
13.1 ft. (4.0 m.)	 300097
19.7 ft. (6.0 m.)	 300098
25.1 ft. (7.6 m.)	 300384
29.5 ft. (9.0 m.)	 300099
39.4 ft. (12.0 m.)	 300100
49.2 ft. (15.0 m.)	 300101

#### VALVE CONNECTION

**ECU CONNECTION** 



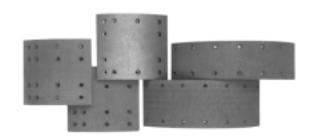
## **Bayonet Modulator Valve Extension Harnesses with One End Unterminated**



Bendix offers four grades of brake linings to suit various applications and needs. All meet or exceed the requirements of F.M.V.S.S. #121.

These premium grade materials, Bendix Premium-BXP and Bendix Heavy Duty-BXHD are rated for 20,000 lb. and 23,000 lb. axles respectively. These high performance products deliver a long lining life while minimizing drum wear.

The Bendix Valu-BXV and Bendix Standard-BXS are rated for 20,000 lb. axles and provide solid stopping power.



#### FMSI Number to Bendix Piece Number

	FMSI No.	Bendix Value	Bendix Standard	Bendix Premium	Bendix Heavy Duty
Axle Rating		20,000 lb.	20,000 lb.	20,000 lb.	23,000 lb.
	4311G	BXV-FF-4311G	BXS-FF-4311G	BXP-EF-4311G	BXHD-GF-4311G
	4311J	BXV-FF-4311J	BXS-FF-4311J	BXP-EF-4311J	BXHD-GF-4311J
	4515C	BXV-FF-4515C	BXS-FF-4515C	BXP-EF-4515C	BXHD-GF-4515C
	4515E	BXV-FF-4515E	BXS-FF-4515E	BXP-EF-4515D	BXHD-GF-4515E
	4702D	-	-	BXP-EF-4702D	-
	4707D	BXV-FF-4707D	BXS-FF-4707D	BXP-EF-4707D	BXHD-GF-4707D
	4709D	BXV-FF-4709D	BXS-FF-4709D	BXP-EF-4709D	BXHD-GF-4709D
	1308DTT	_	_	BXP-EF-1308DTT	-

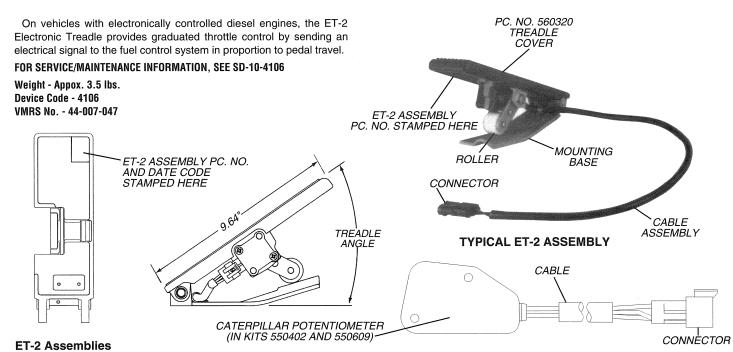
#### **Dimensional Data**

FMSI No.	Drum	Width	Thickness	Length	No.	Rive	ets
	Dia.				Pieces	Size	No.
4311G 4311J	16.5 16.5	7 7	.750 .750	8.50 8.50	8 8	10-8 10-8	80 112
4515C	16.5	7	.750	8.13 Tapered 8.38	4	10-8	96
4515E	16.5	7	.750	8.13 Tapered 8.38	4	10-8	128
4702D	15	4	.750	7.69 Tapered 7.44	4 4	1/4R	64
4707D	16.5	7	.875	8.42 Tapered 8.23	4 4	1/4R	112
4709D	16.5	7	.875	8.14 Tapered	8	1/4R	112
1308DTT	15	4	.438	16.50 Tapered	4	10-7	56

**BRAKE APPLICATION GUIDE**Recommendations for 16.5 in. X 7 in. 'S' Cam Air Brakes

	14000	15000	16000	17000	18000	19000	20000	21000	22000	22000 23000	24000	25000
<b>195A/L</b> 30 Chamber X 6.5 Slack Adjuster					BXV BXS BXP	BXV BXS BXP				BXHD		
<b>180 A/L</b> 30 Chamber X 6.0 Slack Adjuster			BXV BXS BXP	BXV BXS BXP	BXV BXS BXP	BXV BXS BXP	BXV BXS BXP	BXV BXS BXP	ВХНD	ВХНD	ВХНD	ВХНD
<b>165 A/L</b> 30 Chamber X 5.5 Slack Adjuster	BXV BXS BXP	BX HD	BX HD	ВХНD								
<b>144 A/L</b> 24 Chamber X 6.0 Slack Adjuster	BXV BXS BXP	BXV BXS BXP	BXV BXS BXP	BXV BXS BXP	BXV BXS BXP	ВХНD	ВХНD	ВХНD				

Bendix Premium BXP is the ideal lining for most over-the-road tractor and trailer applications where long life and minimum drum wear / maintenance costs are desired.

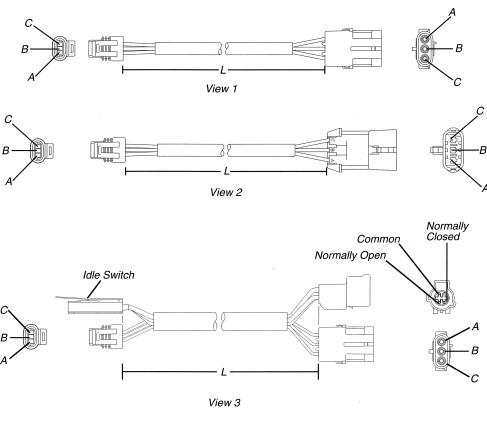


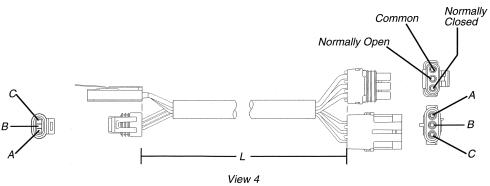
O.E. Assembly Pc. No.	Service Replacement Pc. No. (Note 1)	Customer I.D.	Engine	Treadle Angle	Cable Assembly	Potentiometer Kit	Major Rebuild Kit	Mounting Base View
550200	065151		CUMMINS CELECT	35	550478	550391	550543	5
550227	065271	MACK 4QB47	MACK V-MAC	35	550226	550390	550394	5
550233	065272		DETROIT DDEC	35	550265	550389	550394	5 & 1
550281	065320	PACCAR 1606169	DETROIT DDEC	30	550265	550389	550394	4
550305	065290	FORD F1HT9735AA	CUMMINS CELECT	35	550396	550391	550543	5
550308	065291	FORD F0HS9735AA	DETROIT DDEC	35	550265	550389	550394	5
550344	065308	MACK 4QB47-P2	MACK V-MAC	35	550342	550390	550394	6
550345	065272	MACK 4QB51	DETROIT DDEC	35	550265	550389	550394	5
550378	065419	_	DETROIT DDEC	45	550265	550389	550394	3
550379	065321	PACCAR 1606068	CAT PEEC	30	Included w/Pot. Kit	550402	550403	4
550380	065322	MACK 4QB48	CAT PEEC	35	Included w/Pot. Kit	550402	550403	5
550464	065332	PIERCE 424627	DETROIT DDEC	45	550265	550389	550394	7
550465	065338	_	CAT PEEC	45	Included w/Pot. Kit	550402	550403	- 7
550482	065381	PACCAR 1606444	CUMMINS CELECT	30	550420	550391	550543	4
550483	065380	MACK 4QB49M	CUMMINS CELECT	35	550420	550391	550543	5
550537	065420	_	CAT PEEC	45	Included w/Pot. Kit	550402	550403	3
550539	065421		CUMMINS CELECT	45	550420	550391	550543	3
550546	065320		DETROIT DDEC	30	550438	550389	550394	4
550547	065272		DETROIT DDEC	35	550438	550389	550394	5
550548	065321		CAT PEEC	30	Included w/Pot. Kit	550402	550403	4
550549	065322		CAT PEEC	35	Included w/Pot. Kit	550402	550403	5
550551	065431		CUMMINS CELECT	30	550524	550391	550543	4
550553	065432		CUMMINS CELECT	35	550524	550391	550543	5
550556	065434	MCI/TMC 4L1561	DETROIT DDEC	35	550265	550389	550394	8
550604	065272	OSHKOSH 2021650	DETROIT DDEC	35	550265	550389	550394	5 & 1
550615	065483	PACCAR 160527	'94 CAT PEEC	30	Included w/Pot. Kit	550609	550403	4
550616	065484	-	'94 CAT PEEC	35	Included w/Pot. Kit	550609	550403	5
550695	065332	PIERCE	CUMMINS CELECT	45	550420	550391	550543	7

Note 1 - Service replacement units are supplied without treadle cover and cable assembly.

#### **Cable Assemblies**

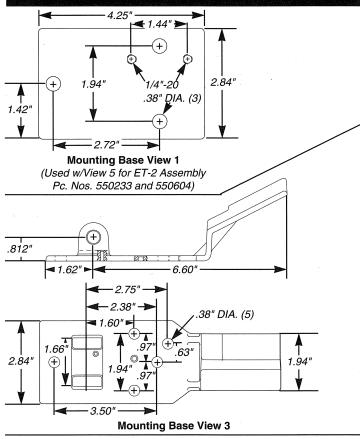
				Pins	
Cable Assy. Pc. No.	View	L"	А	В	С
550226	2	30.0 (+/5)	Input (Orange)	Output (Green)	Ground (Black)
550265	1	30.0 (+/5)	Ground (Black)	Output (Green)	Input (Orange)
550342	2	36.0 (+/5)	Input (Orange)	Output (Green)	Ground (Black)
550396	. 3	30.0 (+/- 2)	Input (Orange)	Output (Green)	Ground (Black)
550420	4	30 (+/- 2)	Ground (Black)	Output (Green)	Input (Orange)
550438	2	34.0 (+/5)	Ground (White)	Output (Black)	Input (Red)
550478	4	30.0 (+/- 2)	Input (Orange)	Output (Green)	Ground (Black)
550524	4	34 (+/- 2)	Ground (Black)	Output (Green)	Input (Orange)

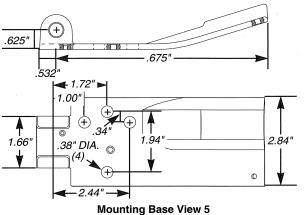


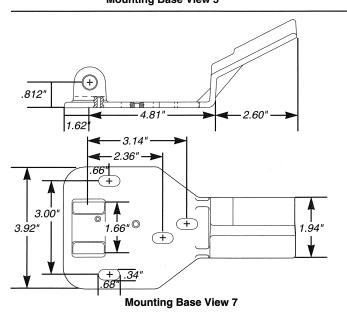


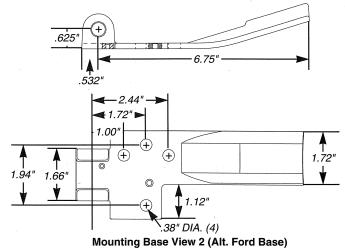
## **MOUNTING BASE VIEWS**

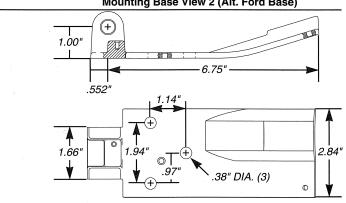
ET-2 ELECTRONIC TREADLE CATALOG 15-A-3

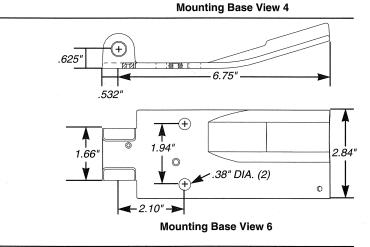


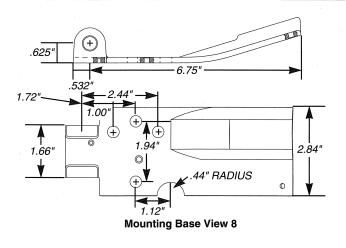


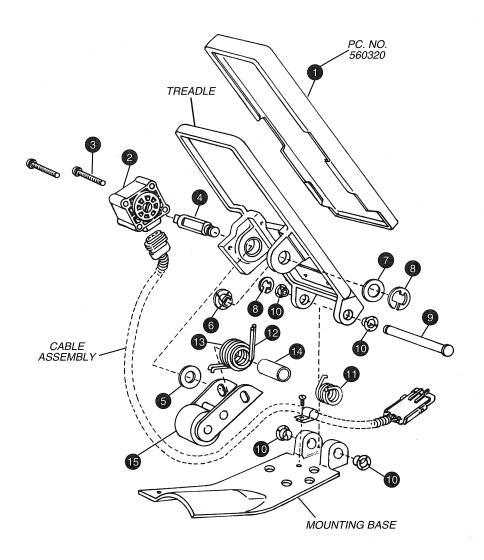












#### POTENTIOMETER KITS CONSIST OF:

	Key No.	Qty.	Description
-	2 3	1 2	Potentiometer Sems Screws

## PIVOT PIN SPRING KIT 550392 CONSISTS OF:

	Key No.	Qty.	Description
	8	1	Snap Ring
١	10	4	Nyliner Bearing (White)
ı	11	1	Pivot Spring

## LEVER SHAFT SPRING KIT 550393 CONSISTS OF:

Key No.	Qty.	Description
5 6 7 8 12	1 1 1 1 1 1	Pivot Pin Spring Kit Nylon Washer (.520" I.D.) Nyler Bearing (Black) Nylon Washer (.390" I.D.) Snap Ring Inner Spring
13 14	1	Outer Spring Spring Support

## MAJOR REBUILD KITS CONSIST OF:

Key No.	Qty.	Description
	1	Lever Shaft Spring Kit
1	1.	Treadle Cover
4	1	Lever Shaft
9	1	Pivot Pin
15	1	Roller Assembly

The ET-S is an engine compartment bulkhead mounted electronic treadle. On electronically controlled diesel engines, the ET-S fulfills the same function as a conventional mechanical throttle. However, rather than transmitting a mechanical force to the engine governor, the ET-S controls engine speed by supplying a variable electrical voltage to the engine's electronic controller.

The main components of the ET-S are: a mounting plate, suspended treadle, potentiometer (variable resistor), actuator body and base. The selected potentiometer, chosen for a specific engine application, provides the electrical link to the engine control system.

For Service Data and Maintenance Information, see SD-15-4111. WEIGHT approx. 3.7 lbs.

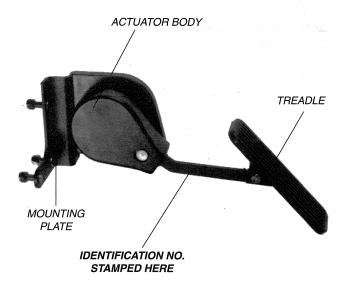
VRMS No. is 44-007-047.

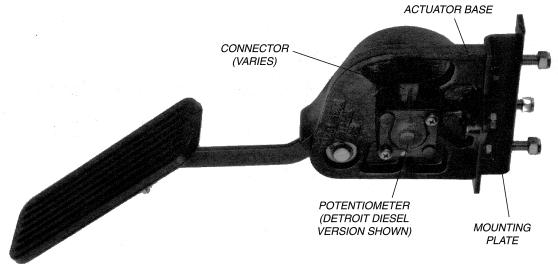
Device Code for the Caterpillar version is 4112.

Device Code for the Cummins version is 4111.

Device Code for the Detroit Diesel Corp. version is 4113.

This treadle is used as part of the BCM-KW module - see Catalog page 98-A-1 for further details.



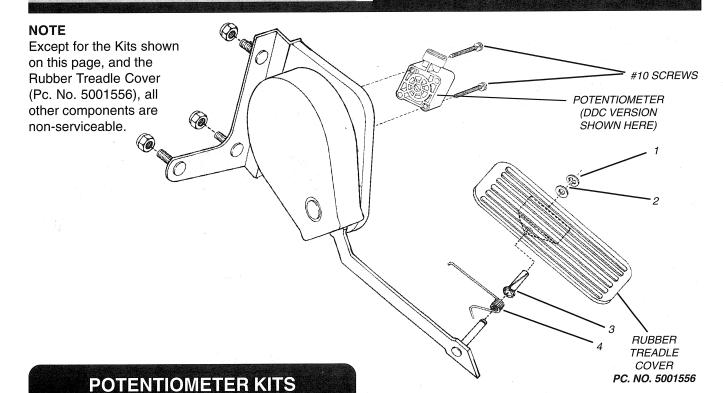


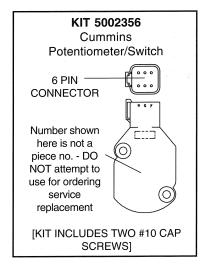
Identification Number (Items in bold are OE Assembly No.s)	Service Replacement Part	Customer I.D. Number	Potentiometer Replacement Kit
<b>5001650</b> (supersedes 5001550*)	800230	Kenworth Q21-1005-1	5002356 (Caterpillar)
<b>5001649</b> (supersedes 5001551*)	800231	Kenworth Q21-1005-2	5002357 (Cummins)
<b>5001651</b> (supersedes 5001552*)	800232	Kenworth Q21-1005-3	5002358 (DDC)

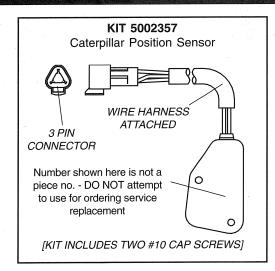
<sup>\*</sup> These identification numbers are found on early release models of the ET-S.

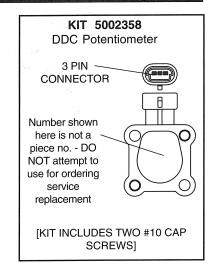
ET-S

## MAINTENANCE KITS AND SERVICE PARTS









#### TREADLE SPRING KIT Pc. No. 5002359

#### 

The ET-S2 is an engine compartment bulkhead mounted electronic treadle. On electronically controlled diesel engines, the ET-S2 fulfills the same function as a conventional mechanical throttle. However, rather than transmitting a mechanical force to the engine governor, the ET-S2 controls engine speed by supplying a variable electrical voltage to the engine's electronic controller.

The main components of the ET-S2 are: a mounting plate, suspended treadle, potentiometer (variable resistor), actuator body and base. The selected potentiometer, chosen for a specific engine application, provides the electrical link to the engine control system.

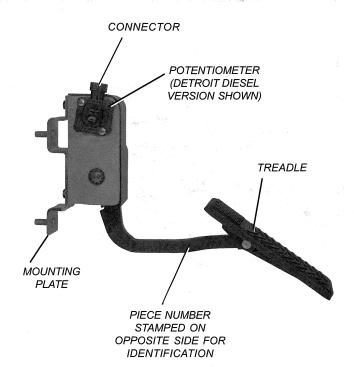
For Service Data and Maintenance Information, see SD-15-4111.

WEIGHT approx. 2.9 lbs. VRMS No. is 44-007-047.

Device Code for the Caterpillar version is 4115.

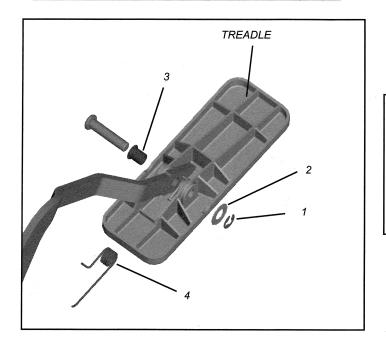
Device Code for the Cummins version is 4116.

Device Code for the Detroit Diesel Corp. version is 4117.



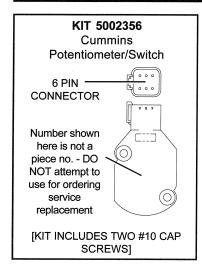
O. E. Piece Number (Use for Identification)	Service Replacement Part	Treadle & Spring Kit	Potentiometer Replacement Kit
5005131	800606	5006085	5002356 (Cummins)
5005133	800607	5006085	5006086 (DDC)
5005135	800608	5006085	5002357 (Caterpillar)

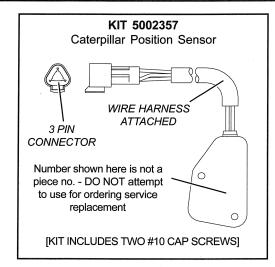
SEE PAGE 15-B-5 FOR RETROFIT KITS

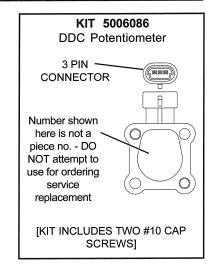


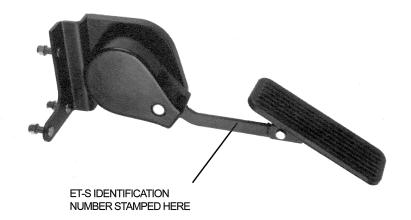
TREADLE KIT - SER	VICES ALL ASSEN	<i>IBLIES</i>
KEY	ITEM	QTY
1 RE	TAINING RING	1
2 NY	LON WASHER	1
3NYLII	NER BEARING	1
4 TRE	ADLE SPRING	1

#### **POTENTIOMETER KITS**









Retrofit Kits		
ET-S (obsolete)	ET-S2 Retrofit Kit	Engine
5001649 (5001550*)	5006222	Cummins
5001650 (5001551*)	5006224	Caterpillar
5001651 (5001552*)	5006223	DDC

<sup>\*</sup>These identification numbers are found on early release models of the ET-S.

